

Applicant's or agent's file reference number	PA005PCT	International application No.	UNASSIGNED
---	----------	-------------------------------	------------

## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13 bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>311</u> , line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input checked="" type="checkbox"/>	
Name of depositary institution American Type Culture Collection	
Address of depositary institution (including postal code and country) 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit 20 May 1997	Accession Number 209059
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
Europe In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC). Continued on the Attached Pages 2 & 3	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

For receiving Office use only	For International Bureau use only
<input type="checkbox"/> This sheet was received with the international application	<input type="checkbox"/> This sheet was received by the International Bureau on:
Authorized officer	Authorized officer

**ATCC Deposit No. 209059****Page 2****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.



ATCC Deposit No. 209059

Page 3

**DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

**SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

**NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

Applicant's or agent's file reference number	PA005PCT	International application No.	UNASSIGNED
---	----------	-------------------------------	------------

## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13 bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>311</u> , line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input checked="" type="checkbox"/>	
Name of depositary institution American Type Culture Collection	
Address of depositary institution (including postal code and country) 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit 20 May 1997	Accession Number 209060
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
Europe In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC). Continued on the Attached Pages 2 & 3	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	
For receiving Office use only	For International Bureau use only
<input type="checkbox"/> This sheet was received with the international application	<input type="checkbox"/> This sheet was received by the International Bureau on:
Authorized officer	Authorized officer

**ATCC Deposit No. 209060****Page 2****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

**ATCC Deposit No. 209060****Page 3****DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

**SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

**NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

Applicant's or agent's file reference number	PA005PCT	International application No.	UNASSIGNED
--	----------	-------------------------------	------------

## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13 bis)

<b>A.</b> The indications made below relate to the microorganism referred to in the description on page <u>311</u> , line <u>N/A</u>	
<b>B. IDENTIFICATION OF DEPOSIT</b> Further deposits are identified on an additional sheet <input checked="" type="checkbox"/>	
Name of depositary institution American Type Culture Collection	
Address of depositary institution (including postal code and country) 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit 20 May 1997	Accession Number 209061
<b>C. ADDITIONAL INDICATIONS</b> (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
<b>D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE</b> (if the indications are not for all designated States)	
Europe In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC). Continued on the Attached Pages 2 & 3	
<b>E. SEPARATE FURNISHING OF INDICATIONS</b> (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

For receiving Office use only <input type="checkbox"/> This sheet was received with the international application  Authorized officer	For International Bureau use only <input type="checkbox"/> This sheet was received by the International Bureau on:  Authorized officer
--	---

**ATCC Deposit No. 209061****Page 2****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

ATCC Deposit No. 209061

Page 3

**DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

**SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

**NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

Applicant's or agent's file reference number	PA005PCT	International application No.	UNASSIGNED
---	----------	-------------------------------	------------

## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13 bis)

<b>A.</b> The indications made below relate to the microorganism referred to in the description on page <u>311</u> , line <u>N/A</u>	
<b>B. IDENTIFICATION OF DEPOSIT</b> Further deposits are identified on an additional sheet <input checked="" type="checkbox"/>	
Name of depositary institution <u>American Type Culture Collection</u>	
Address of depositary institution (including postal code and country) <u>10801 University Boulevard</u> <u>Manassas, Virginia 20110-2209</u> <u>United States of America</u>	
Date of deposit <u>20 May 1997</u>	Accession Number <u>209062</u>
<b>C. ADDITIONAL INDICATIONS</b> (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
<b>D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE</b> (if the indications are not for all designated States)	
Europe In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC). Continued on the Attached Pages 2 & 3	
<b>E. SEPARATE FURNISHING OF INDICATIONS</b> (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")          	

<b>For receiving Office use only</b>	<b>For International Bureau use only</b>
<input type="checkbox"/> This sheet was received with the international application	<input type="checkbox"/> This sheet was received by the International Bureau on:
Authorized officer  	Authorized officer  



**ATCC Deposit No. 209062****Page 2****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

**ATCC Deposit No. 209062****Page 3****DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

**SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

**NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

Applicant's or agent's file reference number	PA005PCT	International application No.	UNASSIGNED
---	----------	-------------------------------	------------

## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13 bis)

<b>A.</b> The indications made below relate to the microorganism referred to in the description on page <u>311</u> , line <u>N/A</u>	
<b>B. IDENTIFICATION OF DEPOSIT</b> Further deposits are identified on an additional sheet <input checked="" type="checkbox"/>	
Name of depositary institution American Type Culture Collection	
Address of depositary institution (including postal code and country) 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit 20 May 1997	Accession Number 209063
<b>C. ADDITIONAL INDICATIONS</b> (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
<b>D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE</b> (if the indications are not for all designated States) Europe In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC). Continued on the Attached Pages 2 & 3	
<b>E. SEPARATE FURNISHING OF INDICATIONS</b> (leave blank if not applicable) The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g. "Accession Number of Deposit")	

<b>For receiving Office use only</b> <input type="checkbox"/> This sheet was received with the international application Authorized officer	<b>For International Bureau use only</b> <input type="checkbox"/> This sheet was received by the International Bureau on: Authorized officer
---	--

**ATCC Deposit No. 209063****Page 2****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

**ATCC Deposit No. 209063****Page 3****DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

**SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

**NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

Applicant's or agent's file reference number	PA005PCT	International application No.	UNASSIGNED
---	----------	-------------------------------	------------

## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13 bis)

<b>A.</b> The indications made below relate to the microorganism referred to in the description on page <u>311</u> , line <u>N/A</u>	
<b>B. IDENTIFICATION OF DEPOSIT</b> Further deposits are identified on an additional sheet <input checked="" type="checkbox"/>	
Name of depositary institution American Type Culture Collection	
Address of depositary institution (including postal code and country) 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit 20 May 1997	Accession Number 209064
<b>C. ADDITIONAL INDICATIONS</b> (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
<b>D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE</b> (if the indications are not for all designated States)	
Europe In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC). Continued on the Attached Pages 2 & 3	
<b>E. SEPARATE FURNISHING OF INDICATIONS</b> (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

For receiving Office use only <input type="checkbox"/> This sheet was received with the international application  Authorized officer	For International Bureau use only <input type="checkbox"/> This sheet was received by the International Bureau on:  Authorized officer
--	---

**ATCC Deposit No. 209064****Page 2****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

ATCC Deposit No. 209064

Page 3

**DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

**SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

**NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.



Applicant's or agent's file reference number	PA005PCT	International application No.	UNASSIGNED
---	----------	-------------------------------	------------

## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13 bis)

<b>A.</b> The indications made below relate to the microorganism referred to in the description on page <u>311</u> , line <u>N/A</u>	
<b>B. IDENTIFICATION OF DEPOSIT</b> Further deposits are identified on an additional sheet <input checked="" type="checkbox"/>	
Name of depositary institution <u>American Type Culture Collection</u>	
Address of depositary institution (including postal code and country) <u>10801 University Boulevard</u> <u>Manassas, Virginia 20110-2209</u> <u>United States of America</u>	
Date of deposit <u>20 May 1997</u>	Accession Number <u>209065</u>
<b>C. ADDITIONAL INDICATIONS</b> (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
<b>D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE</b> (if the indications are not for all designated States)	
<u>Europe</u> In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC). Continued on the Attached Pages 2 & 3	
<b>E. SEPARATE FURNISHING OF INDICATIONS</b> (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")          	

<b>For receiving Office use only</b>	<b>For International Bureau use only</b>
<input type="checkbox"/> This sheet was received with the international application	<input type="checkbox"/> This sheet was received by the International Bureau on:
Authorized officer	Authorized officer

**ATCC Deposit No. 209065****Page 2****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

**ATCC Deposit No. 209065****Page 3****DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

**SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

**NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

Applicant's or agent's file reference number	PA005PCT	International application No.	UNASSIGNED
--	----------	-------------------------------	------------

## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13 bis)

<b>A.</b> The indications made below relate to the microorganism referred to in the description on page <u>311</u> , line <u>N/A</u>	
<b>B. IDENTIFICATION OF DEPOSIT</b> Further deposits are identified on an additional sheet <input checked="" type="checkbox"/>	
Name of depositary institution American Type Culture Collection	
Address of depositary institution (including postal code and country) 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit  20 May 1997	Accession Number  209066
<b>C. ADDITIONAL INDICATIONS</b> (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
<b>D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE</b> (if the indications are not for all designated States) Europe In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC). Continued on the Attached Pages 2 & 3	
<b>E. SEPARATE FURNISHING OF INDICATIONS</b> (leave blank if not applicable) The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

<b>For receiving Office use only</b> <input type="checkbox"/> This sheet was received with the international application  Authorized officer	<b>For International Bureau use only</b> <input type="checkbox"/> This sheet was received by the International Bureau on:  Authorized officer
---	--

**ATCC Deposit No. 209066****Page 2****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

**ATCC Deposit No. 209066****Page 3****DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

**SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

**NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

2182

Applicant's or agent's file reference number	PA005PCT	International application No.	UNASSIGNED
--	----------	-------------------------------	------------

## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13 bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>311</u> , line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input checked="" type="checkbox"/>	
Name of depositary institution American Type Culture Collection	
Address of depositary institution (including postal code and country) 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit 20 May 1997	Accession Number 209067
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States) Europe In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC). Continued on the Attached Pages 2 & 3	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable) The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

For receiving Office use only	For International Bureau use only
<input type="checkbox"/> This sheet was received with the international application	<input type="checkbox"/> This sheet was received by the International Bureau on:
Authorized officer	Authorized officer

ATCC Deposit No. 209067

Page 3

**DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

**SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

**NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.



Applicant's or agent's file reference number	PA005PCT	International application No.	UNASSIGNED
---	----------	-------------------------------	------------

## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13 bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>311</u> , line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input checked="" type="checkbox"/>	
Name of depositary institution American Type Culture Collection	
Address of depositary institution (including postal code and country) 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit 20 May 1997	Accession Number 209068
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
Europe In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC). Continued on the Attached Pages 2 & 3	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

For receiving Office use only	For International Bureau use only
<input type="checkbox"/> This sheet was received with the international application	<input type="checkbox"/> This sheet was received by the International Bureau on:
Authorized officer	Authorized officer

**ATCC Deposit No. 209068****Page 2****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

ATCC Deposit No. 209068

Page 3

**DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

**SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

**NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

Applicant's or agent's file reference number	PA005PCT	International application No.	UNASSIGNED
---	----------	-------------------------------	------------

## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13 bis)

<b>A.</b> The indications made below relate to the microorganism referred to in the description on page <u>311</u> , line <u>N/A</u>	
<b>B. IDENTIFICATION OF DEPOSIT</b> Further deposits are identified on an additional sheet <input checked="" type="checkbox"/>	
Name of depositary institution American Type Culture Collection	
Address of depositary institution (including postal code and country) 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit 20 May 1997	Accession Number 209069
<b>C. ADDITIONAL INDICATIONS</b> (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
<b>D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE</b> (if the indications are not for all designated States)	
Europe In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC). Continued on the Attached Pages 2 & 3	
<b>E. SEPARATE FURNISHING OF INDICATIONS</b> (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

<b>For receiving Office use only</b>	<b>For International Bureau use only</b>
<input type="checkbox"/> This sheet was received with the international application	<input type="checkbox"/> This sheet was received by the International Bureau on:
Authorized officer	Authorized officer

**ATCC Deposit No. 209069****Page 2****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

**ATCC Deposit No. 209069****Page 3****DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

**SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

**NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

Applicant's or agent's file reference number	PA005PCT	International application No.	UNASSIGNED
--	----------	-------------------------------	------------

## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13 bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>311</u> , line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input checked="" type="checkbox"/>	
Name of depositary institution American Type Culture Collection	
Address of depositary institution (including postal code and country) 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit 12 January 1998	Accession Number 209579
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
Europe In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC). Continued on the Attached Pages 2 & 3	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

For receiving Office use only	For International Bureau use only
<input type="checkbox"/> This sheet was received with the international application	<input type="checkbox"/> This sheet was received by the International Bureau on:
Authorized officer	Authorized officer

**ATCC Deposit No. 209579****Page 2****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.



**ATCC Deposit No. 209579****Page 3****DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

**SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

**NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

Applicant's or agent's file reference number	PA005PCT	International application No.	UNASSIGNED
--	----------	-------------------------------	------------

## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13 bis)

<b>A.</b> The indications made below relate to the microorganism referred to in the description on page <u>311</u> , line <u>N/A</u>	
<b>B. IDENTIFICATION OF DEPOSIT</b> Further deposits are identified on an additional sheet <input checked="" type="checkbox"/>	
Name of depositary institution American Type Culture Collection	
Address of depositary institution (including postal code and country) 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit 12 January 1998	Accession Number 209578
<b>C. ADDITIONAL INDICATIONS</b> (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
<b>D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE</b> (if the indications are not for all designated States)	
Europe In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC). Continued on the Attached Pages 2 & 3	
<b>E. SEPARATE FURNISHING OF INDICATIONS</b> (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

<b>For receiving Office use only</b>	<b>For International Bureau use only</b>
<input type="checkbox"/> This sheet was received with the international application	<input type="checkbox"/> This sheet was received by the International Bureau on:
Authorized officer	Authorized officer

**ATCC Deposit No. 209578****Page 2****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

**ATCC Deposit No. 209578****Page 3****DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

**SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

**NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

Applicant's or agent's file reference number	PA005PCT	International application No.	UNASSIGNED
---	----------	-------------------------------	------------

## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13 bis)

<b>A.</b> The indications made below relate to the microorganism referred to in the description on page <u>311</u> , line <u>N/A</u>	
<b>B. IDENTIFICATION OF DEPOSIT</b> Further deposits are identified on an additional sheet <input checked="" type="checkbox"/>	
Name of depositary institution American Type Culture Collection	
Address of depositary institution (including postal code and country) 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit  16 July 1998	Accession Number  203067
<b>C. ADDITIONAL INDICATIONS</b> (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
<b>D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE</b> (if the indications are not for all designated States) Europe In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC). Continued on the Attached Pages 2 & 3	
<b>E. SEPARATE FURNISHING OF INDICATIONS</b> (leave blank if not applicable) The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

<b>For receiving Office use only</b> <input type="checkbox"/> This sheet was received with the international application  Authorized officer	<b>For International Bureau use only</b> <input type="checkbox"/> This sheet was received by the International Bureau on:  Authorized officer
---	--

**ATCC Deposit No. 203067****Page 2****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

**ATCC Deposit No. 203067****Page 3****DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

**SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

**NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

Applicant's or agent's file reference number	PA005PCT	International application No.	UNASSIGNED
--	----------	-------------------------------	------------

## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13 bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>311</u> , line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input checked="" type="checkbox"/>	
Name of depositary institution American Type Culture Collection	
Address of depositary institution (including postal code and country) 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit 16 July 1998	Accession Number 203068
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
Europe In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC). Continued on the Attached Pages 2 & 3	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

For receiving Office use only	For International Bureau use only
<input type="checkbox"/> This sheet was received with the international application	<input type="checkbox"/> This sheet was received by the International Bureau on:
Authorized officer	Authorized officer



**ATCC Deposit No. 203068****Page 2****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

**ATCC Deposit No. 203068****Page 3****DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

**SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

**NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

Applicant's or agent's file reference number	PA005PCT	International application No.	UNASSIGNED
---	----------	-------------------------------	------------

## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13 bis)

<b>A.</b> The indications made below relate to the microorganism referred to in the description on page <u>311</u> , line <u>N/A</u>	
<b>B. IDENTIFICATION OF DEPOSIT</b> Further deposits are identified on an additional sheet <input checked="" type="checkbox"/>	
Name of depositary institution <u>American Type Culture Collection</u>	
Address of depositary institution (including postal code and country) <u>10801 University Boulevard</u> <u>Manassas, Virginia 20110-2209</u> <u>United States of America</u>	
Date of deposit <u>01 February 1999</u>	Accession Number <u>203609</u>
<b>C. ADDITIONAL INDICATIONS</b> (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
<b>D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE</b> (if the indications are not for all designated States)	
<u>Europe</u> In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC). Continued on the Attached Pages 2 & 3	
<b>E. SEPARATE FURNISHING OF INDICATIONS</b> (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")          	

<b>For receiving Office use only</b>	<b>For International Bureau use only</b>
<input type="checkbox"/> This sheet was received with the international application	<input type="checkbox"/> This sheet was received by the International Bureau on:
Authorized officer	Authorized officer

**ATCC Deposit No. 203609****Page 2****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

**ATCC Deposit No. 203609****Page 3****DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

**SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

**NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

Applicant's or agent's file reference number	PA005PCT	International application No.	UNASSIGNED
--	----------	-------------------------------	------------

## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13 bis)

<b>A.</b> The indications made below relate to the microorganism referred to in the description on page <u>311</u> , line <u>N/A</u> .	
<b>B. IDENTIFICATION OF DEPOSIT</b> Further deposits are identified on an additional sheet <input checked="" type="checkbox"/>	
Name of depositary institution American Type Culture Collection	
Address of depositary institution (including postal code and country) 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit 01 February 1999	Accession Number 203610
<b>C. ADDITIONAL INDICATIONS</b> (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
<b>D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE</b> (if the indications are not for all designated States)	
Europe In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC). Continued on the Attached Pages 2 & 3	
<b>E. SEPARATE FURNISHING OF INDICATIONS</b> (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

<b>For receiving Office use only</b> <input type="checkbox"/> This sheet was received with the international application Authorized officer	<b>For International Bureau use only</b> <input type="checkbox"/> This sheet was received by the International Bureau on: Authorized officer
---	--

**ATCC Deposit No. 203610****Page 2****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

**ATCC Deposit No. 203610****Page 3****DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

**SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

**NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.



Applicant's or agent's file reference number	PA005PCT	International application No.	UNASSIGNED
--	----------	-------------------------------	------------

## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13 bis)

<b>A.</b> The indications made below relate to the microorganism referred to in the description on page <u>311</u> , line <u>N/A</u>	
<b>B. IDENTIFICATION OF DEPOSIT</b> Further deposits are identified on an additional sheet <input checked="" type="checkbox"/>	
Name of depositary institution American Type Culture Collection	
Address of depositary institution (including postal code and country) 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit 17 November 1998	Accession Number 203485
<b>C. ADDITIONAL INDICATIONS</b> (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
<b>D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE</b> (if the indications are not for all designated States) Europe In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC). Continued on the Attached Pages 2 & 3	
<b>E. SEPARATE FURNISHING OF INDICATIONS</b> (leave blank if not applicable) The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

<b>For receiving Office use only</b> <input type="checkbox"/> This sheet was received with the international application Authorized officer	<b>For International Bureau use only</b> <input type="checkbox"/> This sheet was received by the International Bureau on: Authorized officer
---	--

**ATCC Deposit No. 203485****Page 2****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

**ATCC Deposit No. 203485****Page 3****DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

**SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

**NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

Applicant's or agent's file reference number	PA005PCT	International application No.	UNASSIGNED
--	----------	-------------------------------	------------

## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13 bis)

<b>A.</b> The indications made below relate to the microorganism referred to in the description on page <u>311</u> , line <u>N/A</u>	
<b>B. IDENTIFICATION OF DEPOSIT</b> Further deposits are identified on an additional sheet <input checked="" type="checkbox"/>	
Name of depositary institution American Type Culture Collection	
Address of depositary institution (including postal code and country) 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit  18 June 1999	Accession Number  PTA-252
<b>C. ADDITIONAL INDICATIONS</b> (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
<b>D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE</b> (if the indications are not for all designated States)	
Europe In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC). Continued on the Attached Pages 2 & 3	
<b>E. SEPARATE FURNISHING OF INDICATIONS</b> (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

<b>For receiving Office use only</b> <input type="checkbox"/> This sheet was received with the international application  Authorized officer	<b>For International Bureau use only</b> <input type="checkbox"/> This sheet was received by the International Bureau on:  Authorized officer
---	--

**ATCC Deposit No. PTA-252****Page 2****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

**ATCC Deposit No. PTA-252****Page 3****DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

**SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

**NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

Applicant's or agent's file reference number	PA005PCT	International application No.	UNASSIGNED
--	----------	-------------------------------	------------

## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13 bis)

<b>A.</b> The indications made below relate to the microorganism referred to in the description on page <u>311</u> , line <u>N/A</u>	
<b>B. IDENTIFICATION OF DEPOSIT</b> Further deposits are identified on an additional sheet <input checked="" type="checkbox"/>	
Name of depositary institution <u>American Type Culture Collection</u>	
Address of depositary institution (including postal code and country) <u>10801 University Boulevard</u> <u>Manassas, Virginia 20110-2209</u> <u>United States of America</u>	
Date of deposit <u>18 June 1999</u>	Accession Number <u>PTA-253</u>
<b>C. ADDITIONAL INDICATIONS</b> (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
<b>D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE</b> (if the indications are not for all designated States) <u>Europe</u> In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC). Continued on the Attached Pages 2 & 3	
<b>E. SEPARATE FURNISHING OF INDICATIONS</b> (leave blank if not applicable) The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")          	

<b>For receiving Office use only</b> <input type="checkbox"/> This sheet was received with the international application  Authorized officer	<b>For International Bureau use only</b> <input type="checkbox"/> This sheet was received by the International Bureau on:  Authorized officer
---	--

**ATCC Deposit No. PTA-253****Page 3****DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

**SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

**NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.



Applicant's or agent's file reference number	PA005PCT	International application No.	UNASSIGNED
--	----------	-------------------------------	------------

## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13 bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>311</u> , line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input checked="" type="checkbox"/>	
Name of depositary institution American Type Culture Collection	
Address of depositary institution (including postal code and country) 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit 28 October 1999	Accession Number PTA-881
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
Europe In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC). Continued on the Attached Pages 2 & 3	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

For receiving Office use only	For International Bureau use only
<input type="checkbox"/> This sheet was received with the international application	<input type="checkbox"/> This sheet was received by the International Bureau on:
Authorized officer	Authorized officer

**ATCC Deposit No. PTA-881****Page 2****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

**ATCC Deposit No. PTA-881****Page 3****DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

**SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

**NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

Applicant's or agent's file reference number	PA005PCT	International application No.	UNASSIGNED
--	----------	-------------------------------	------------

## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13 bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>311</u> , line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution American Type Culture Collection	
Address of depositary institution (including postal code and country) 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit 28 October 1999	Accession Number PTA-882
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
Europe In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC). Continued on the Attached Pages 2 & 3	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g. "Accession Number of Deposit")	

For receiving Office use only	For International Bureau use only
<input type="checkbox"/> This sheet was received with the international application	<input type="checkbox"/> This sheet was received by the International Bureau on:
Authorized officer	Authorized officer

**ATCC Deposit No. PTA-882****Page 2****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

**ATCC Deposit No. PTA-882****Page 3****DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

**SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

**NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

*What Is Claimed Is:*

1. An isolated nucleic acid molecule comprising a polynucleotide having a nucleotide sequence at least 95% identical to a sequence selected from the group consisting of:

(a) a polynucleotide fragment of SEQ ID NO:X which is hybridizable to SEQ ID NO:X;

(b) a polynucleotide encoding a polypeptide fragment of SEQ ID NO:Y which is hybridizable to SEQ ID NO:X;

(c) a polynucleotide encoding a polypeptide domain of SEQ ID NO:Y which is hybridizable to SEQ ID NO:X;

(d) a polynucleotide encoding a polypeptide epitope of SEQ ID NO:Y which is hybridizable to SEQ ID NO:X;

(e) a polynucleotide encoding a polypeptide of SEQ ID NO:Y which is hybridizable to SEQ ID NO:X, having biological activity;

(f) a polynucleotide which is a variant of SEQ ID NO:X;

(g) a polynucleotide which is an allelic variant of SEQ ID NO:X;

(h) a polynucleotide which encodes a species homologue of the SEQ ID NO:Y;

(i) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(h), wherein said polynucleotide does not hybridize under stringent conditions to a nucleic acid molecule having a nucleotide sequence of only A residues or of only T residues.

2. The isolated nucleic acid molecule of claim 1, wherein the polynucleotide fragment comprises a nucleotide sequence encoding a protein.

3. The isolated nucleic acid molecule of claim 1, wherein the polynucleotide fragment comprises a nucleotide sequence encoding the sequence identified as SEQ ID NO:Y, which is hybridizable to SEQ ID NO:X.

4. The isolated nucleic acid molecule of claim 1, wherein the polynucleotide fragment comprises the entire nucleotide sequence of SEQ ID NO:X, which is hybridizable to SEQ ID NO:X.

5. The isolated nucleic acid molecule of claim 2, wherein the nucleotide sequence comprises sequential nucleotide deletions from either the C-terminus or the N-terminus.

6. The isolated nucleic acid molecule of claim 3, wherein the nucleotide sequence comprises sequential nucleotide deletions from either the C-terminus or the N-terminus.

7. A recombinant vector comprising the isolated nucleic acid molecule of claim 1.

8. A method of making a recombinant host cell comprising the isolated nucleic acid molecule of claim 1.

9. A recombinant host cell produced by the method of claim 8.

10. The recombinant host cell of claim 9 comprising vector sequences.

11. An isolated polypeptide comprising an amino acid sequence at least 95% identical to a sequence selected from the group consisting of:

- (a) a polypeptide fragment of SEQ ID NO:Y;
- (b) a polypeptide fragment of SEQ ID NO:Y, having biological activity;
- (c) a polypeptide domain of SEQ ID NO:Y;
- (d) a polypeptide epitope of SEQ ID NO:Y;
- (e) a full length protein of SEQ ID NO:Y;
- (f) a variant of SEQ ID NO:Y;
- (g) an allelic variant of SEQ ID NO:Y; or
- (h) a species homologue of the SEQ ID NO:Y.



12. The isolated polypeptide of claim 11, wherein the full length protein comprises sequential amino acid deletions from either the C-terminus or the N-terminus.

13. An isolated antibody that binds specifically to the isolated polypeptide of claim 11.

14. A recombinant host cell that expresses the isolated polypeptide of claim 11.

15. A method of making an isolated polypeptide comprising:  
(a) culturing the recombinant host cell of claim 14 under conditions such that said polypeptide is expressed; and  
(b) recovering said polypeptide.

16. The polypeptide produced by claim 15.

17. A method for preventing, treating, or ameliorating a medical condition, comprising administering to a mammalian subject a therapeutically effective amount of the polypeptide of claim 11 or the polynucleotide of claim 1.

18. A method of diagnosing a pathological condition or a susceptibility to a pathological condition in a subject comprising:  
(a) determining the presence or absence of a mutation in the polynucleotide of claim 1; and  
(b) diagnosing a pathological condition or a susceptibility to a pathological condition based on the presence or absence of said mutation.

19. A method of diagnosing a pathological condition or a susceptibility to a pathological condition in a subject comprising:

(a) determining the presence or amount of expression of the polypeptide of claim 11 in a biological sample; and

(b) diagnosing a pathological condition or a susceptibility to a pathological condition based on the presence or amount of expression of the polypeptide.

20. A method for identifying a binding partner to the polypeptide of claim 11 comprising:

(a) contacting the polypeptide of claim 11 with a binding partner; and

(b) determining whether the binding partner effects an activity of the polypeptide.

21. The gene corresponding to the cDNA sequence of SEQ ID NO:Y.

22. A method of identifying an activity in a biological assay, wherein the method comprises:

(a) expressing SEQ ID NO:X in a cell;

(b) isolating the supernatant;

(c) detecting an activity in a biological assay; and

(d) identifying the protein in the supernatant having the activity.

23. The product produced by the method of claim 20.

## SEQUENCE LISTING

<110> Birse et. al.

<120> Colon and Colon Cancer Associated Polynucleotides and Polypeptides

<130> PA005PCT

<140> Unassigned

<141> September 28, 2000

<150> 60/157,137

<151> September 29, 1999

<150> 60/163,280

<151> November 3, 1999

<160> 8564

<170> PatentIn Ver. 2.0

<210> 1

<211> 407

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (275)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (386)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (399)

<223> n equals a,t,g, or c

<400> 1

ggaacaagaa gaaagacaac catctcctgn aacctgtgca agaaaatgct aacagtgggtt 60  
actatgaagc tcacctgtg actaatggca tagaggagcc ttgggaagaa tcctctcatg 120  
aacctgaacc tgagccagaa tctgaaacaa agactgaaga gctgaaacca caagtggagg 180  
agaagaactt agaagaacta gaggagaaat ctactactcc tcctccggca gaacctgttt 240

2

ctctgccaca agaaccacca aagccaagag tcgangctaa accagaagtt caatctcagc 300  
 cacctcgtgt gcgtggaaca acgacctaga gaacgacctg gttttcctcc tagaggacca 360  
 agaccaggca gaggagatat ggaacngaat ggactctgna caaccgt 407

<210> 2  
 <211> 413  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (373)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (380)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (396)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (407)  
 <223> n equals a,t,g, or c

<400> 2  
 gaattcggca cgagggttttt atgggcaaca gccatataca gtctacttcc tatctattgt 60  
 gaagttgttg ttgaggattt cctgtattat ttcactctgc attcatgtct cagttacctt 120  
 tgatccctag caaactgtcc caagtggaat ggcctaacc aggaatgatg tattatttct 180  
 tacagtcctg tgactgtctg ggcggtcctt ttgctaactt ccccagggct cacgtgtgcc 240  
 ttgtgggtcaa gtgatagcag cgttggctgg ctgggtccmag gtgggcctca cgtgtcctat 300  
 agtatttgct agctattgtc tgggggtccc tcaactcttc cacatgcccc agtaagcata 360  
 gaccagttcc ctnacaccan ggtgggtctc aggggnagca ttccaanagg gga 413

<210> 3  
 <211> 474  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (332)  
 <223> n equals a,t,g, or c

<400> 3  
 gacgggaatt tgatggaaaa ccaggacttg ctgggctcgc aacacctcca cctccccctc 60  
 cacaccagag gcatctgcac ctccactgcc cagcaaaact ccgctcctc cccctccaaa 120

## 3

```

gacaactcgc aagcagacat cgggtggactc cgggatcgtk cagtgcgctc gcaaggctct 180
ctggaaagag tgtgctgcc cccccatct ccatgccctc tcttctgtg tccccctgagt 240
ctgctgttta cctcattggg cctgtgatgt taacatttmg tgcgactgct ttttcttcaa 300
aggagtccag ttctcaccat ggagtgagtg gncctttagc gtcattggagc aagggtgggtc 360
tgaggagtag atatgggtcc gggatgtgct atcgtagtta tcagarttgg gggcctctga 420
gtgtgtctgg ctctgagaga gtctgagtct tgcccaaaca ttctttcttt ttgg 474

```

<210> 4

<211> 1843

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (877)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1431)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1458)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1463)

<223> n equals a,t,g, or c

<400> 4

```

agaccttaac agacacctca ccaaagnagg tatacagatg gatacgcata tgaagagatg 60
ytcgacwtca tatgtcwtca agaaaatgca aattaaaata atgagatacc gctacatatc 120
cattagaatg sccaaaatcc aaagcactga caacaccgta tgctagttag gatgtggagc 180
aacagaaact actttcattg atgggtgggac tgagaaacgg tatagccgct ttggaaaaca 240
gtttacaaaa ctaaacatac tgttttcaac tccattggga gcataattat agtttattac 300
aggtagtwtta attcagcagt tgcacacctt gttattttacc caatggagtt gaaagcttat 360
gtccacacgt aatgtgcaca taaatgttta cagagcttta ttcctaatca ccaaatttta 420
gaatcaaaca agatgttctt cagcaggtaa atggataaac tgtgtacatc cagacaatgg 480
aatattatgc agtgctaaaa gaaatgagct gtcaagccat aaaaggacaa gaaggaaaat 540
taaatgcatg ttactaaatg aaaaaaggcc atctgaaaag tctatatact gtatgattgc 600
aactatatga cattctgaaa aaggcaaaac tatggagaca gtaaaagatt agtggttgtc 660
aggaattggg gaaggggagg gacaaaagaga gcacaaaata ttttttagtac agtaaaaccc 720
acgcgtccgc ggacgcgtgg gttttactgt actaaaaata ttttgtgctc tctttgtccc 780

```

```
tcccccttccc caattcctga caaccactaa tcttttactg tctccatagt tttgcctttt 840
tcagaatgtc atatagttgc aatcatacag tatatanact tttcagatgg ccttttttcat 900
ttagtaacat gcattttaatt ttcccttcttg tccttttatg gcttgacagc tcattttctt 960
tagcactgca taatattcca ttgtctggat gtacacagtt tatccattta cctgctgaag 1020
aacatcttgt ttgattctaa aatttggtga ttaggaataa agcttctgta aacattttatg 1080
tgcacattac gtgtggacat aagctttcaa ctccattggg taaataacaa ggtgtgcaac 1140
tgctgaatta tactacctgt aataaactat aattatgctc ccaatggagt tgaaaacagt 1200
atgttttagt ttgtaaactg ttttccaaag cggctatacc gtttctcagt cccaccatca 1260
atgaagtagt ttctgttgct ccacatcctc actagcatac ggtgttgctca gtgctttgga 1320
ttttggccat tctaattggat atgtagcggg atctcattat ttaatttgc attttcttga 1380
tgacatatga tgtcgagcat ctcttcatat gcgtatccat ctgtatacct nctttggtga 1440
ggtgtctgtt aaggtctntg atncatttta atgcttcttt gttaggggta gatacatgta 1500
aaggatatgt cttcttggag aattgactcc tttatcctta tataataatc ctctttgttc 1560
cttgtaactt gcattgctgt gcaatttgct ctttctgaaa ttagcacaat tgacccttga 1620
atgacatgga ggttaggggc acaaataaaa atctgtgtat aactttttat tcatctataa 1680
cttaactttt aaacccattt aacctcccc caaaattcag gaataataac acacccgacc 1740
acaccgctta caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1800
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 1843
```

<210> 5

<211> 471

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (161)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (428)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (471)

<223> n equals a,t,g, or c

<400> 5

```
ggaagaagcc cagaggttgt gcccaggggc agaaatcatt gcctagtgtt caccggctga 60
ctctcaactg accattccca tgtggacagg ctttaatact gtgagaggat ccttgctctg 120
ctggcagttt cccactccta tgcactttca caggaactag naaaactatt cttaaacc aa 180
aaataccatc cgtgttgacc catgttgcag agcccttact taaatccttc actggtgtat 240
gaatactttg tcataatgct gctttgctgg gtagtgagct cttatttttc actgggggtc 300
agctataact aaaaactcaa gtgacatatt tcagttacca aagtggccag gaactttttg 360
cttttatgaa aatagattca tattgtattt cccagtgtgt cttytatgtc tttgaatgtt 420
ttagaganaa gtctatgcct gtctaaaaat gaatccagtg ttgcctttct n 471
```

<210> 6

<211> 905

## 6

```

ttaaataaat tagtgtgtcc tataggggga aaaaaaccaa gaaaccacct tttaaaaaga 300
atgatatgcc atataccctt ggattttcat tttgcattat attgacgtgt ttttttgaag 360
ggaaaaaaag tnataanaat ctggatagtc taagactcca ctattttaaa ag 412

```

```

<210> 8
<211> 752
<212> DNA
<213> Homo sapiens

```

```

<400> 8
actgaacagt ggttaatcct gactctgttt ttgactgaca gttaacagtt acatgaacca 60
ttcatattac agctcttact taaatttgac caagccagga tatatctgtt aggccacatt 120
catttaggga tcatgttttc caaagcaggt ttgggcaaaa ttaatccaca ggactgaaag 180
gtatacatct gtgagttttg ttctcacttc cacctctaata ttgaagaaca ctttaattga 240
cacagaatac atttcacata ttttaacctct acaataagtt ctgacacatt ttccatgaaa 300
caaaccatcg ctatatccaa gataatgaac ctatctatca tactcccaaa ttccttctkg 360
catctttgta atttctcact cttccttctc cctctccccg tcccatccca accactgac 420
tgctcaggca actaccaatc ttctttctgt cactatagat taatttgcac ttttaaagaa 480
atttacatac atggaaccat acatcatcta tgctttgtag tatgactcct gtcactcagt 540
acaattatct tgagattcat ttatggtawt gtatgtatca atagttcatc cctttttattg 600
gtaagtaaca tttttttgta taggtatacc atgatttggt gatgaacaaa tttacctgtt 660
gatgaacatt tacgttggtta ccaagatctt tgctattgaa aataaagttt ttatgaatat 720
ttatatatat aaaaaaaaaa aaaaaaactc ga 752

```

```

<210> 9
<211> 642
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (613)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (622)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (635)
<223> n equals a,t,g, or c

```

```

<400> 9
ggcagaggtg ctactggaag caatacgaaa aggtattcag ctacgcaaag tagaagagca 60
gcgtgaacag gaagctaagc atgaacgcac tgaaaacgat gttgccacca tcctgtctcg 120
ccgtattgct gttgaatata gtgattcgga agatgattca gaatttgatg aagtagattg 180
gttgaggtaa gaaaaatgca ttgataaata ttacaaaact gaatgcaaat gtcctttgtg 240
gtgcttggtc cttgaaaatg tttgggtcatt ctagtgtttt gctttctttt ccttataata 300
aatgaccctt ttcctccata acttttgatt tctaaggaaa atattagcat acatttcaaa 360

```

```

ctaaatgttt tacagtggct tatctttttt ttccccctga aaagactaat ttgggtcaa 420
aaaccactaa gtattaagca tgggacagct gttgttagga gtagccagat tcagtttttt 480
ggatatatct taattgtgta ctttgtggaa ttttaaattt aaaggaaagg caactggaaa 540
ttggaaatcy tgagggggcag ctgtatctac taatgaggcc ttattccctt tcccggatgt 600
tttaaaggag ggnacactgc cntggattat acggn tacac cc 642

```

```

<210> 10
<211> 211
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (210)
<223> n equals a,t,g, or c

```

```

<400> 10
tctttttctc tcccactttt tcatattcct ctttttcatt tttgcctttc cgtttctgtc 60
tatgatgtag gcttctgagg agaaccmaga agcttggett tagtggtaga atgacagrac 120
ttagggatcc cttgcaggct agaacaaagt tctgaccctt agaccaaadc tttatgttaa 180
gaagttttcc agaattcaaa aaaaaaaaaa t 211

```

```

<210> 11
<211> 532
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (515)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (517)
<223> n equals a,t,g, or c

```

```

<400> 11
taagagatca aagcttataa ttttcttttt taatttttga aggagggatc aactccagtt 60
tccaatgtct atgtgtctat gtgtgtatgt gccatacata tgtattcaca tgaagaccgg 120
catggccaag ttctgctgga ggagcactca agtgtgacga gcagggccac tggaccctgc 180
agggctgtgg tgtatatagt gcagcttttg aggtggaact ctattttcac acttttctat 240
ggagccttcc gagtcccagg ttttcaactg aggtgtgtctg tctggatggc ggttttcaga 300
cctccattaa catccctacc cagcattctg tacttcgggg gccttctctc ttgttataaa 360
actttttacc aagtgaacaa tcgataccac ctttgtttcc atttctactg gtgtaaatac 420
tgagtactaa ctgagaattt tgactttgca ttctgtcgga atacttgtgt tcaataaaaa 480
ttgaaagaaa aaagctaaaa aaaaaaaaaa aaaancncga gggggggccc gg 532

```

```

<210> 12
<211> 1120
<212> DNA

```



<213> Homo sapiens

<220>

<221> misc feature

<222> (711)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (946)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (987)

<223> n equals a,t,g, or c

<400> 12

```
cataaacatt gatgttgggt caatcatggt ctcaatgtat ttaaccatgt gtttttaa 60
tttttaattt agttatcaaa ttgagaatct gatggtagtg cattaatcac cttgaggaag 120
aacctttatc gtttatctga ttttcagatg catagagctc tggctgcttt aaaaaataaa 180
cctctaaatc atgttcacaa ggtagtcaag gagegtctgt gcccttgggt gtgttcacga 240
caacctgagc ctttcggggt cagattccat catgccatt gtaaaaagtt tcattcgaaa 300
aatggaaatg accttcattc actcgggtga ccagtgttct ctcaagtatc tgactgagac 360
aggcttgaac aaaatgttaa aaatgaggag agtcagatgt ttacaggag actgagcaac 420
tgacttcat cagaagaagt gctaagtttt ataagcacga tggaaacctt gcctgacact 480
atggcagcag gagctttaca acggatttgt gaagtggaaa aaaaggatgg tgatcaaggg 540
ctgccaaaag raatactgga gaatagcatc tttcaagctt tatgctttca gtttgaaaag 600
gagccctcac agctgtcaaa cactagttta gtgactgctt tkcaagctct gattctgttg 660
catgtggatc ctcaaagtag cctgttgctg aacctgggtg cagaatgcaa naatcgtctc 720
agaaaagggt gcatggaagt tcgcaatctt tgtattcttg gggaaagtct gattacactg 780
cacagttcag gttgtgtgac actagaactc attataaatc aacttcaagg tgaaaaattg 840
gaaacattta ccccgaggga tattgtggcc ctttatagaa tcttgagggc atgtactgaa 900
aaagtggatg aacaccaaac atttttaaat aagataaaca actttncctt atcaatagtt 960
tccaacctga gtcctaaatt gattagncaa atgctcactg ccctgggtgg tcttgatcaa 1020
agtcaagcat ttcctctgat tataaaattg ggcaaaatat gtcgtgaggc atgtcccaca 1080
tttcaactaa cgaggagctt aggagagtct tttgaggcgt 1120
```

<210> 13

<211> 600

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (50)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (571)

<223> n equals a,t,g, or c

<400> 13

```
ctagatcgtc agggaggaag ggtcagttgg gtgcctgttt ttctgttttn agtcctttaa 60
aatgagtaga agcaacctgt taccctggaa agagcactgg acatagacct agtgctgcgt 120
gatgttgagc acgtttcttc ttccctttga gtcccagttt cccttttggt tacaggggga 180
tagtagcccc cagggatcat gtgaaagtga gaaagccctt ttcacactgt ggagcgggtgc 240
agatgtggga aacctcaaag atggttgccc attttaaate ctttcatctc tcatctctct 300
ttcttctctc ctttctgccc tgacgtagcc atggttgagg gggtgaggcc agaagaaact 360
gcctccgmaa gaggtagcag ccgctcaggt ggctctgctg gcatcggagc ccacagaagt 420
gaggagtggc cgatggamct gccctccaaa tgtgcctgac tctgggtctt gctgtcactg 480
ggatttcctg ggcattggcag acagaaagaa agatagtttg accaagtcgt aggaagcttg 540
attccagcgg gtaaaaaagg gggcagggaa ntgcctcctt ttattttttg ccttcaggag 600
```

<210> 14

<211> 807

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (773)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (786)

<223> n equals a,t,g, or c

<400> 14

```
caattaaggg tgtacaaatt ataataatgc atctctatct tcatactttg aatggcaaac 60
gctatttatg cataaatatt ttcattttta gtaatatatg aagtgtaaat actcgatata 120
taagtataga ttttaaagat atgggacttt attttcacat aagtcaatag atgtttctct 180
agaacaaaaat atttagtaaa gctttataaa ttatattaaa aggaagcggg gaacatgtat 240
tttttaacat agaacagaag tgacttcatt ctttttagac atcagaaatg ttaaagttga 300
ttcccaatat ttgttgtagt tttttgtagc aaatgttaaa aatcacgagt taccatgtat 360
agaatgtgga ctgtcatgtt gatatcattg tacagtgata agccattttw atctgtatac 420
atttcaccaa tttattaaca gggtgaatat ttgtttcttt ttagaacatt ttatttatac 480
tgtgaagact ttgttatacc ttatttgcta caacatagat catatcattg ctactttgac 540
ttagcatttg catcataaac ataattatga tgtttttttc atgctccttc caggggctca 600
gtcacttgaa gaaactgttg ctaaccaagc tcttgactct gtttccctta atgatacaag 660
tctctgtacc agcgctttat gttaattacc aaaactctcc tgcacagag catgatatct 720
ataataggag atactgsaat aaaatgrttw ggctgtaaaa atttgagggc acnaattttc 780
caattncaat ggcaaattgg catggtg 807
```

<210> 15

<211> 416

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<400> 15

```
ngttttggga ttattataag ttcttgtgtc ttaaggccat ctgcttttat atccagtgat 60
gtgggatttt aatcagccat taattaggta agcattcact ttgaggacaa tattctgttt 120
tatcttgggt agcatggaca gtttgtcaca gaaataagtt ccctattcaa acttggaatt 180
agctgattca gagtaacata ttaataatat aaaaatggcc ataccctttt atggcgtaac 240
attattttcta ggtattgttt ctaaggaaat aattttaaat attgggaaaa aatattttta 300
caattttacag tctgtctgac atttggtaaa tagctaattg tgatatattc atattaggag 360
atagggtgca gccactaaaa tgattttgaa gtattgtcca ttagtaatgg taattt 416
```

<210> 16

<211> 752

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (40)

<223> n equals a,t,g, or c

<400> 16

```
ggcctgggct ccttcgaat ggtgggcct ctgagccagn ttctgaggag gagtcggagg 60
aggagcctga atgtttggag atagacttca agtcccggac cttatccgtg cgccgcttcg 120
gtttgcaggt gacctttgcg tgcgggcgcc ccttctgatt gaccctgatg agctgtagct 180
ctgatggccc ctccctcggg aatgattagg gtgacggctg kccggggctc gttcgagtgg 240
cgcccgcccg gtggtgacct gaacaggaga gcgggacggc gaccattctc tcgggagggg 300
cccattytga gaaagtccct tcgcttggtc aaactaggag ggcgatagca ccggccttac 360
tgcgacgatg acaaagtaca acacaccgtc tggcgcggaag gagatgctcg agaacccttt 420
gctgttggtt tttttcgct gtccctccgaa accaagggaa atgcggctct gtgggttctg 480
ttaacgtcag catttaataa gtgaactcta aatgcattgc cccttatggg tgcgctggcc 540
tcctgagttg actcagctct tgcaacgtag ctagttgata accctcgaaa tatagcgaat 600
tgagatgtgc tatattgtaa aatacgggac ttagtacgaa aaaactgatg taaaaattat 660
ctcaatactt tttaatactg attacatgtt ggaatataat gttttgcata tattgggtca 720
aataaaaaatg ttattaattt caaaaaaaaa aa 752
```

<210> 17

<211> 481

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (442)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (447)

<223> n equals a, t, g, or c

<220>

<221> misc feature

<222> (448)

<223> n equals a,t,g, or c

<400> 17

ggcagcaggtt	tcaaaccaac	actgaaattc	tgtggcatca	catatattgg	gccttgatgt	60
catgacagak	caaaatcatt	tgatatccct	ttctccattc	taggtttttc	tttttttcag	120
taactgattt	accttgatca	cttttcaact	tccatattct	tcatatagta	aaaggcaaaag	180
tgttgaagat	actacggtgt	ggtagtagtt	gaaaattatt	gccgtcatta	ttacatact	240
taagacatat	tagcaagttg	atccaaaatg	ggaggcctta	tagatgtgct	tgggggaaaa	300
tgaaggggag	aaagtagcca	tacaggagtt	caaagaattc	catgcccttc	agattagccc	360
attaccagaa	acatcatgaa	agtattttta	aaactaatta	tttactacag	tgtatttcac	420
ttgtcttgtg	tgtctgaaca	cnagganngc	taaattagca	agttttttaa	ggaggatattt	480
t						481

<210> 18

<211> 912

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (875)

<223> n equals a, t, g, or c

<220>

<221> misc feature

<222> (881)

<223> n equals a,t,g, or c

<400> 18

aattcggcac	aggatcagac	ttcctttcaa	ctgtcctccc	ctccaagcag	accacctgtc	60
cccttctatc	ccagctcaga	gcagctgacc	caactcagaa	tctctttcct	acaggatgaa	120
gtgccttttg	aatgttattt	taagccgaga	gttaattttt	ctacacaaca	tatttccaga	180
catcttttag	tcttttattg	tcttagatac	tataagaaga	tgaacatgac	aattttctag	240
aacctggtag	cgtgtgtgtg	tgtggcgggg	ggtgctgagg	gaggggagtg	agtcacagga	300
gcctgtcccc	caacaggtgt	gactgctctg	acaacctgtg	gcatgctgca	gggtcaggct	360
cctgatagga	ggatttcatg	actatgtcat	tgtctccact	catttttgac	ccagtttga	420
atgtatctgc	aattgtgtgg	ctcaacactt	taggaacaa	tagattattt	tatattatta	480
tttctgatgg	tgacaagttt	gtcttgagg	cacattttct	ccttgaaaag	tgacatcctg	540
tcacttctgc	tctcacacta	ctgccatata	tttgtgtttt	ttgttggtat	tgtttgggta	600
gagcagttac	aagaaaccct	aaaacccttg	gatataaaag	aaatctgttt	attgattttt	660
aaatctttcc	tttccaaaag	ctgggataca	catgggagct	gtttggggaa	tttcccttgc	720
tgctaccgcg	ctgccaccaa	atgggaattg	accaggcggg	ctgtttacac	tgtttctttg	780
gccactgtgg	ccyatggctc	aggaatatgg	ctcactggct	aaggccttacc	aaactcgggg	840
acagggggtc	agggaaacag	gaggggtgtt	cccntcccc	nttggcaggc	cttcccaccc	900
acctggttaa	cc					912

## 12

<210> 19  
 <211> 507  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (489)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (492)  
 <223> n equals a,t,g, or c

<400> 19  
 ggatacatag gaagttgacc tcgggggtatc atggagagtg tccctcctag tggctggagg 60  
 tagggacagt tggttgtggg gctggagaga gggtgtgggg aggaagcgag gatgcgtgcc 120  
 tgccactagg atctgcatcc ccgagcccaa gccaggaggg atttccctta ggcaacacca 180  
 tcccaggagg atctgccaca atttgcgttt cacagctraa gacgccgagg cttagagagc 240  
 tcgacctcct caaggtcaca ccactgggta aatagaggga tgcagactca ggttttgcta 300  
 tgtgctcaca tttcaacttt atgcttaaca tgaatggaaa aatatgaaag taaatagtga 360  
 aaaggtgagt tatgagctta gattacctag attattccag tatcccatgg aagctgagga 420  
 cttattccgc tttccacacc gaacactaaa tgtggaccag tatcaagaac cctcctgtcc 480  
 ccacgcagnt anaaccaggt ggcttct 507

<210> 20  
 <211> 410  
 <212> DNA  
 <213> Homo sapiens

<400> 20  
 ggcagagcca aaagagggtt cttggatctc acgcaacaaa gagttcgggg cgagtccata 60  
 gagtaaagtg aaagcaagtt catcaagaaa gcaaaggaat aaagaatgcc tactccatag 120  
 gcagagcagt ggctttggct gctcagctgc ttgtacttgt tacttcttga gtatatgcta 180  
 aacaagggat tgattactcc ttgttttagca gttttctggg aaaggagtgg gcaattccca 240  
 gaactgaggg ttcctcccct ttttaagacc atattagggt gacttcctga tgttgccatg 300  
 gcatttgtaa actgtcatgg cgctrtgggw gtgtctttta gcatgctaata gctttataat 360  
 tagcgtataa tgagcagtga ggacaaccag aggtcactct tgtctgtgcc 410

<210> 21  
 <211> 496  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (36)  
 <223> n equals a,t,g, or c

<220>

## 13

<221> misc feature  
 <222> (356)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (443)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (454)  
 <223> n equals a,t,g, or c

<400> 21  
 ggacagaggg cacs mkcaaa ccttggtctt cctctnctgt tgcattcctt ccctaccctt 60  
 ccctcccagg tgctcggtac ttaccwagt ttctatatat cagtgtttta tgttggaatt 120  
 ttctcttggt ttatttttac tagttggtaa accctgttta tgctgaaaca aataaggaaa 180  
 tggatatatt gaccatatgt gttattcata gaagacagta tgatcaaatg tgccaaaaac 240  
 aagcaaaaaa aacttaattc ctgrgaagta tgccttattt ttattgatct gctttgtctt 300  
 acaattaagg tccaagagct tggttaaact gtattatttg cctaagtata aaaganaact 360  
 tgaactgcat tgcaatattg acgttcttta aaatgagaga cactgtcaag taatttaact 420  
 cagagatcag ccaccagatt tgnaatgcct atgnatgtgt gtgtgttggg agtggttttt 480  
 tcctttaaac caccca 496

<210> 22  
 <211> 363  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (313)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (333)  
 <223> n equals a,t,g, or c

<400> 22  
 ggacagagta taaatgatgg tgtggatgtc aggggtgaggg aggagacaaa accacgatga 60  
 cccttagctt tgtggcctga actgtgggtg gctgagggga tcgttaattg aatggggcag 120  
 actgaggctt gtraggaaga tcagagtctg gttcttgaca tgagatgccc ttcaaacatc 180  
 tcttcaacta ggtgcaacta gggatacaga aacactgkat atttcaacag cagaaattga 240  
 atgggggggat tgatagcsct ggcgagggaa gcagctggta aagaagacag atggcaccct 300  
 gagacagccc agnggtggaa taggaccccc agngtgcagg gattaaagtt ccatggggtg 360  
 gtg 363

<210> 23  
 <211> 239

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (238)

<223> n equals a,t,g, or c

<400> 23

```
ctcaggctgc tgcacgtggs catccgcac cggccttityt tgcacagttt gaccgtggag 60
agcgcgggacc tgcagggctg ctgctttgct gggcctggca gccccaccc gagaagatgg 120
agttccggac ggcattctatc cgctctttg ggcacttaac aaggctctgcc acggagactg 180
taaggacgtc ttcttgacc aagtgggtggg cgggctggcg cctgctgct gcacctgna 239
```

<210> 24

<211> 461

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (426)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (428)

<223> n equals a,t,g, or c

<400> 24

```
aacaattaag tctttaggaa tgtgtaacca gaactatggt agtattgctt ataaaacttt 60
agtttaggttc aatatataca tatatacatc tctatatagg tatatagatt tgcattttgt 120
cttgtaaaat tttatttgaa taaattcttc ctgtaggtaa tgggaaacaa aattaatagt 180
tcatatgtca ctcatagcat ttctatattt gaaagtagcc caatataaaa cttttgattc 240
taaaattaaa ccagcagcct attacaagca cattctttga ttgagtcatt gggtataaac 300
ttactaaatg cagrgaagc agccaattta gggaaacttc tgagttggtg gggacactgt 360
tggattaata atgtacggta tgaattaagt gatgccttaa cttggatttt acattttaag 420
gttaangngg gggcatatgg tcagccaact tagggggcat t 461
```

<210> 25

<211> 453

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (442)

<223> n equals a,t,g, or c

<400> 25

```
accagaccaa ccctatgaat ggctttcata taaacagggt gcagaattgt cggagtgcac 60
```

## 15

```

aggctcagca ctgatccaga agggcttcaa gactgcccc gatcagttca ttggcatctt 120
tgctcaaaat agacctgagt gggtgattat tgaacaagga tgctttgctt attcgatggg 180
gatcggtcca ctttatgata cccttgga aaagccatc acgtacatag tcaacaaagc 240
tgaactctct ctgggtttttg ttgacaagcc agagaaggcc aaactcttat tagagggtgt 300
agaaaataag ttaataaccag gccttaaaat catagttgtc atggatgcct acggmagtaa 360
ctgggtgaac gaggccagag gtgtggggtg gaagtcacca gcatgaaggc gatggaggac 420
ctgggaagag ccaacagacg gnagcccaag cct 453

```

&lt;210&gt; 26

&lt;211&gt; 1940

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (576)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 26

```

ggcagaggtc ctcaagtgcag ggcaacagga ctttaggttc aagatgggtga ctgcagccat 60
gctgtacacag tgctgcccag tgcttgcccg gggccccaca agcctcctag gcaagggtgg 120
taagactcac cagttcctgt ttggtattgg acgctgtccc atcctggcta cccaaggacc 180
aaactgttct caaatccacc ttaaggcaac aaaggctgga ggagattctc catcttgggc 240
gaagggccac tgctcccttca tgctgtcgga actccaggat gggaagagca agattgtgca 300
gaaggcagcc ccagaagtcc aggaagatgt gaaggctttc aagacagatc tgcctagctc 360
cctggtctca gtcagcctaa ggaagccatt ttccgggtccc caggagcagg agcagatctc 420
tggaaggtc acacacctga ttcagaacaa tatgcctgga aactatgtct tcagttatga 480
ccagtttttc agggacaaga tcatggagaa gaaacaggat cacacctacc gtgtgttcaa 540
gactgtgaac cgctgggctg atgcataatc ctttgnccca acatttctct gaggcattctg 600
tggectcaaa ggatgtgtcc gtctggtgta gtaatgatta cctggggcat gagccgacac 660
cctcaggtct tgcaagccac acaggagacc ctgcagcgtc atgggtgctgg agctggtggc 720
accgcgaaca tctcaggcac cagtaagttt catgtggagc ttgagcagga gctggctgag 780
ctgcaccaga aggactcagc cctgctcttc tcctcctgct ttgttgccaa tgactctact 840
ctcttcacct tggccaagat cctgccaggg tgcgagattt actcagacgc aggcaaccat 900
gcttccatga tccaaggtat ccgtaacagt ggagcagcca agtttgtctt caggcacaat 960
gaccctgacc acctaaagaa acttctagag aagtctaacc ctaagatacc caaaattgtg 1020
gcctttgaga ctgtccactc catggatggg gccatctgtc ccctcgagga gttgtgtgat 1080
gtgtcccacc agtatggggc cctgaccttc gtggatgagg tccatgctgt aggactgtat 1140
gggtcccggg gcgctgggat tggggagcgt gatggaatta tgcataagat tgacatcatc 1200
tctggaactc ttggcaaggc ctttggctgt gtgggcggct acattgccag caccctgac 1260
ttggtggaca ttgtgcgctc ctatgctgca ggcttcatct ttaccacttc tctgcccccc 1320
atgggtgctct ctggagctct agaatctgtg cggtgctca agggagagga gggccaagcc 1380
ctgaggcgag cccaccagcg caatgtcaag cacatgcgcc actactcatg gacagggggc 1440
ttcctgtcat cccctgcccc agccacatca tccccatccg ggtgggcaat gcagcactca 1500
acagcaagct ctgtgatctc ctgctctcca agcatggcat ctatgtgcag gccatcaact 1560
acceactgt ccccgggggg gaagagctcc tgcgcttggm accctcccc caccacagcc 1620
ctcagatgat ggaagatttt gtggagaagc tgctgtggc ttggactgcg gtggggctgc 1680
ccctccagga tgtgtctgtg gctgcctgca attctgtcg ccgtcctgta cactttgagc 1740
tcatgagtga gtgggaacgt tcctacttcg ggaacatggg gcccagtat gtcaccacct 1800
atgcctgaga agccagctgc ctaggattca cccccacct gcgcttact tgggtccagg 1860
cctactcctg tcttctgctt tgttgtgtgc ctctagctga attgagccta aaaataaagc 1920

```



acaaaccaca gcaaaaaaaaa

1940

<210> 27  
 <211> 864  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (552)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (773)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (856)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (863)  
 <223> n equals a,t,g, or c

<400> 27  
 tctaaatcca ttacaaatct gcttagcttc taaatatttc atcaatgagg aaatcccagc 60  
 cctacaactt cggaacagtg aaatattagt ccagggatcc agtgagagac acagaagtgc 120  
 tagaagccag tgctcgtgaa ctaaggagaa aaagaacaga caagggaaca gcctggacat 180  
 ggcatcagag atccacatga caggcccaat gtgcctcatt gagaacacta atgggcgact 240  
 gatggcgaat ccagaagctc tgaagatcct ttctgccatt acacagccta tgggtggtggt 300  
 ggcaattgtg ggcctctacc gcacaggcaa atcctacctg atgaacaagc tggctggaaa 360  
 gaaaaagggc ttctctcttg gctccacggt gcagtctcac actaaaggag tctggatgtg 420  
 gtgtgtgccc caccccaaga agccaggcca catcctagtt ctgctggaca ccgaggggtct 480  
 gggagatgta gagaagggtg acaaccagaa tgactcctgg atcttcgccc tggccgtcct 540  
 cctgarcagc ancttcttgt acaatagcat aggaaccatt aaccagcagg ccatggacca 600  
 actgcactat caatctcggt cctgaacctc acctccaaa agaaagcgac ttcagtagaa 660  
 agtggggtca gaaggaagag tgtggtcctg gccagctag aaaaaagcg ggatgacttt 720  
 tgtaaacaga atcaggaagc atcatcagat cgttgctcag ctttacttca ggncattttc 780  
 agtcctctag aagaagaagt gaagggcggg gaattttatt tcgaaaacca agggggggtaa 840  
 ccgtctctgt tattcnagaa agnt 864

<210> 28  
 <211> 703  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature

<222> (549)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (612)

<223> n equals a,t,g, or c

<400> 28

```

gggtcgaccc acgcgtccgc caggagtagg tcctatcagt gccccccag agtagagagc 60
aataagagcc cagcccagtg cagtcccggc tgtgttttcc tacctggtga tcagaagtgt 120
ctggtttgct tggctgccc tttgcctctt gagtgggcag ccctgggctt gggccctcc 180
ctccggccct cagtgttggc tctgcagaag ctctgggggt cccttcaagt gcacgagggg 240
ttaggctgct gtccctgagt cctccattct gtactggggg gctggctagg acctggggct 300
gtggcctctc agggggcagc ctctccatgg caggcatccc tgccttgggc tgccctcccc 360
cagacccctg accacccctt gggtcctgtc cccaccaga gcccagctc ctgtctgttg 420
gggagccatc acggtgttcg tgcagtccat agcgcttctc aatgtgtgtc acccggaacc 480
tgggagggga ggggaactg gggtttagga ccacaactca gaggctgctt ggccctcccc 540
tctgaccang cttatcctga gtttgggtgc tacttccctc tggcctaagg taggggaggc 600
cttctcagat tntgggggca cattgtgtag cctgacttct gcaggagctc ccaattccag 660
gaaggaaaag agccaaggcc ccacttttgg ggatcagggt ggg 703

```

<210> 29

<211> 337

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (71)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (331)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (332)

<223> n equals a,t,g, or c

<400> 29

```

agggtgacact atagaaggta cgctgcagg taccggatcc ggaattcccg ggtcgaccca 60
cgcgtccgca nttacattta tgttttagt tctaagtaag accctgagag attttcaaaa 120
aggaattaat gattattttt gtcttcccca ggattggaac gagttactat gctgtttctg 180
ggattgcata atgttcgtca gacctccatg ttccctcgtg atcccaaacg actcactcct 240
taaattcaca ctttgccact taactccagt gtggatgaca gagcgagacc ctgcctcaaa 300
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa nnccccc 337

```

<210> 30

<211> 631  
 <212> DNA  
 <213> Homo sapiens  
 <220>  
 <221> misc feature  
 <222> (524)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (608)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (615)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (630)  
 <223> n equals a,t,g, or c

<400> 30  
 agggaactca ctgtgggtttt ratttgtatt tycttttttta agtgaaagca rgkttatttaa 60  
 gaaagcaaag gaataaagaa tggctattcc ataggcagag cccattgcc a ctcagctgct 120  
 tatacttatt gttacttctt gattgtatgc taaacaaggg gtggattatt catgagtttt 180  
 atgggaaagg ggtgggcagt atctggaact gaggggtttct cccctttgta gaccatacag 240  
 ggcaacttcc tgacgttgcc atggtatctg gaaactgtca tgggtgctggt ggaagtgtct 300  
 tttagcatgc tgatgcatta taattagagt ataatgaata gtaaggacaa ccagagggtca 360  
 ctttcatcgc catcttggtt ttggtcagct tctttactgc agcctgtttc atcattaagg 420  
 tctttattac ctgtatcttg tgccgacctc ctgtctcatc ctgtgactta gaatgcctaa 480  
 cctcctggga atgtagccca gtgggtctca gccttatttt actncacccc ctaattcaag 540  
 atgggagttt ctctgggttt cagacaaccc ctggacatgt tttccccct cccttttttac 600  
 agcagaancc ttaantccca acagtcgtan a 631

<210> 31  
 <211> 571  
 <212> DNA  
 <213> Homo sapiens

<400> 31  
 gaattcggca cgagtccac cagccccca aaaaacctct cagtagtttc tttcagtgtta 60  
 caaaatgatg agcatttttc tatgatgagg ttttaaccat tattcagggt ggtcttttgt 120  
 ttttaaatct ttttttaact aataagattt acggtgtgta ttttatacag aaatgcatta 180  
 taaatgtttt taattgtgtt ctgttttttg cagtctttta gtgccatgcc aattgttctt 240  
 atattctata gaagtctgct caaaatactc aacaggggaa taggcagcgg acagtcagaa 300  
 tggttggaat tttggctttc taagaaaaac tttattttgc ataagcatgt ggtcagatca 360  
 ttttgtgcat atgcagcctg gattggatgt taagtaaag cttgttcagt gccggtacat 420  
 ttacttaaat ctgtttttat ttttgtcatg tagaatacta ctgtggtcac cataatgtaa 480

## 19

tctattttctg tacctttttt tttttttttt actttgaagt cttaaataaa atgtataata 540  
 cccaaaaaaa aaaaaaaaaa aaaaaaaaaa a 571

<210> 32  
 <211> 424  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (413)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (414)  
 <223> n equals a,t,g, or c

<400> 32  
 tttctaaaaa tcaggaaaat tagttactaa aaattgctga tcatttttgt ttcattatatt 60  
 ttgttatttc aaatgtataa gctctgggat tctttttgga gcaataccta caaagtcagg 120  
 caccagaatg tgcctcagag ctgtgacatt tcaacatgat ggttttgggtt tggtttggtt 180  
 ttgtgtcctt tttatttgca gttttttctg ttgcaacaga aagtggcttg gaagtcttag 240  
 gtggtatgta acaaattcctt tttaaaaatt ttaaagcagt atttaagtat tcttaaatgt 300  
 gtaaattcat ttaatgtttt acttctaatt tcttgtatct tggctgtctg gttttattgc 360  
 atttttaaaa aaactgaacc attaagkaat tggaaatgaa tgaaggtgaa atnntgaac 420  
 ctga 424

<210> 33  
 <211> 1626  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (525)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (542)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (562)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (607)

<223> n equals a,t,g, or c

<400> 33

```
ccacgcgtcc gacgcggcgc acgcggcagt cctgatggcc cggcatgggt taccgctgct 60
gccctctctg tcgctcctgg tcggcgcgctg gctcaagcta ggaaatggac aggctactag 120
catggtccaa ctgcagggtg ggagattcct gatgggaaca aattctccag acagcagaga 180
tggtgaaggc cctgtgcggg aggcgacagt gaaacccttt gccatcgaca tatttcctgt 240
caccaacaaa gatttcaggg attttgtcag ggagaaaaag tatcggacag aagctgagat 300
gtttggatgg agctttgtct ttgaggactt tgtctctgat gagctgagaa acaaagccac 360
ccagccaatg aagtctgtac tctgggtggc tccagtggaa aaggcatttt ggaggcagcc 420
tgcaggctct ggctctggca tccgagagag actggagcac ccagtgttac acgtgagctg 480
gratgacgcc cgtgcctaata gtgcytkgsg ggggraaacg actgnccac sggaggggag 540
antggggagt ttttcgccc gnaggggggc ttgaarggtc caagtttacc ccatgggggg 600
aactggnntc cagccaaacc gcaccaacct gtggcaggga aagttcccca agggagacaa 660
agctgaggat ggcttccatg gagtctcccc agtgaatgct tccccgccc agaacaacta 720
cgggctctat gacctcctgg ggaacgtgtg ggagtggaca gcatcaccgt accaggtctg 780
tgagcaggac atgcgcgtcc tccggggggc atcctggatc gacacagctg atggctctgc 840
caatcaccgg gcccggtcca ccaccaggat ggcaaacact ccagattcag cctcagacaa 900
cctcggtttc cgctgtgctg cagacgcagg ccggccgcca ggggagctgt aagcagccgg 960
gtggtgacaa ggagaaaagc cttctagggt cactgtcatt ccctggccat gttgcaaaca 1020
gcgcaattcc aagctcgaga gcttcagcct caggaaagaa cttccccttc cctgtctccc 1080
atccctctgt ggcaggcgcc tctcaccagg gcaggagagg actcagcctc ctgtgttttg 1140
gagaaggggc ccaatgtgtg ttgacgatgg ctgggggcca ggtgtttctg ttagaggcca 1200
agtattattg acacaggatt gcaaacacac aaacaattgg aacagagcac tctgaaaggc 1260
cattttttta gcatttttaa atctattctc tcccccttc tccctggatg attcaggaag 1320
ctgmacattg tttcctcaag gcagaatttt cctggttctg ttttctcagc cagttgctgt 1380
ggaaggagaa tgctttcttt gtggcctcat ctgtggtttc gtgtccctct gaaggaaact 1440
agtttccact gtgtaacagg cagacatgta actattttaa gcacagttca gtcctaaaag 1500
ggtctgggag aaccagatga tgtactaggt gaagcattgc attgtgggaa tcacaaagca 1560
aatagtactc cagaaagacc ctgtctcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1620
aaaaaa 1626
```

<210> 34

<211> 450

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (291)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (382)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (404)

<223> n equals a,t,g, or c

## 21

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (439)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 34

```

acccacgcgt ccgccggcgc ggtctatggc tgcgacttct ctaatgtctg ctttggctgc 60
ccggctgctg cagcccgccg acagctgctc ccttcgcctt cgccctttcc acctcgcggc 120
agttcgrgga akctctccct aggtcaggtt ggagtgcagt gctgcaatca cggcttactg 180
cagccttgac ctctctgggt caagtgatcc tcccacctca gcttaaataga agctgttgct 240
atctctggaa ggaaactggc ccagcagatc aagcaagaag tgcggcaaga ngtagaagat 300
ggggtgggct ccaggcaaca aacggccaca cctgaatgtt gatcccggtt tggcgaaaaa 360
tccctgcaag tcaactcctaa tntcctccaa caaaaacaaa gggnaagttg caatttggtg 420
ggaaatccac cagttgaana acaatttttt 450

```

&lt;210&gt; 35

&lt;211&gt; 960

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 35

```

atTTTTTTTT tTTTTTTTTT tTTTTTTaaa acaacttctc aaatttattt aactcatgtg 60
gttaacatgg tattgtataa aaagaaaaaa aaaacaccac tcaatactta ctaagccttg 120
cagacagctc agagttgagg cagcatattg ggcatagaga tcataggatt tgtattatcc 180
cttgcaagat ggaactccaa ccaacaccag aattttccaa ttcaaattca gttttagtgc 240
agaccccgagc ataattttta gaaaaaagat tggattgttg cttttctttt aattttccat 300
tcctatttag acaaatgacc agaggcaatg acaaaagtaa ctgtttaaaa gggatttctc 360
tccagaagtt ttttctaaag gtttaagtcc aggccttcca tccttctctc catccttttt 420
cattttaaaa agaagggttt tggratwtgt caacctttac tcagcttgct atacaaagcc 480
actgcttttag tcctagacat aatgccagga ctcatctccc aaacttctgg tcttaatacaa 540
gttcatgctt gggttgctaa gaagctcatg ttaatcccaa agtcagcaca atcccaacct 600
taaaaagcag acagcctgat tgcactactt acgacataca ccactctgag gcaaaagaag 660
ccagtcagac accccttgct tgctacgtgt gagacacatc agcagttgag cctgacccct 720
tccgcagagc tcaactgtgca aaatcaccag cacaccactg caatccactg agctcaccgc 780
ctgtccagcc ataatggaag tcaactgaag gttatcattg taatagatga ttttccataa 840
gtaactaata aaaatgtttt ctttgatgtt tagacctact aacaattcag tctctccctc 900
tccatcctct cttagggagc ctgtactttt aagcaaatag ggaagctaaa acctcgtgcc 960

```

&lt;210&gt; 36

&lt;211&gt; 530

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (78)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

<222> (362)

<223> n equals a,t,g, or c

<400> 36

```
taacaattca atatataatt acacaaataa tttttaaata taatcaatag taaagactgt 60
tctgtggatg gtagtgtnta atacattttc tattttgtac agtgatttta ggccaaacag 120
ctgctgattt taagaaaaca aaaggcctga aaccgcctct cgtgtctcct ccctccctcg 180
ccttctcctc tcctagctcc tctcctccag ggccagactg agcccagggt gatttcaggc 240
ggacaccaat agactccaca gcagctccag gagccagac accggcggcc agaagcaagg 300
ctaggagctg ctgcagccat gtcggccctc agcctcctca ttctgggcct gctcacggca 360
knccacctgc cagctgtcag caaggcctgg ggaacttcag ccctggatgc agggccttat 420
cgcggtggcc gtgttcctgg tcctcgttgc aatcgcttt gcagtcaacc acttctggtg 480
ccaggaggag ccggagmtgg gagtctggt ggggaacaga ttggaaggta 530
```

<210> 37

<211> 538

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (41)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (502)

<223> n equals a,t,g, or c

<400> 37

```
gccgcggcca cggggcgagc gggccatggt gcgcggcagg ntcttccggc tctcggtccg 60
ggacgtgcgc tccccacgt cgctggggg ccacggcgcg gacgccatgc acacggaccc 120
tgactactca gctgcctatg tcgtcataga aactgatgca gaagatggaa tcaaggggtg 180
tggaattacc ttactctgg graaaggcac trwagttggt gtctgtsctg tgaatgcct 240
cgccccacat gtgtcaca aggacctcaa ggacattggt ggtgacttca gaggcttcta 300
taggcagctc acaagtgatg ggcagctcag atggattggt ccagaaaagg gcgtggtgca 360
cctggcgaca sggccgtcct aaacgcggtg tgggacttgt gggccaagca ggagggaaag 420
cctgtctgga attacttggt gacatggatc ccaggacgct ggtatcctgc atagatttca 480
ggtacatcac tgatgtcctg antgaggagg atgccctaga aatactgcag aaagtcaa 538
```

<210> 38

<211> 1256

<212> DNA

<213> Homo sapiens

<400> 38

```
ggcacgagca ttaacaaaa aatgtgcaaa cacactacta tgatttacca aaagactctc 60
tgcaagtggg aaatcattag ctctagtgtt gctctttgta acctcaggtc tttggggaat 120
ggtgcagaat tagtattgct tccttctttc tgtgtgtgat aatgggtggg gaaggctagt 180
accatctctg tcatacatca aattcccata tgtgaataaa tttatgtatt tttactgcac 240
tctttttata ggtttatcat tcctgcacca acaacgaatg ccattattaa aactttatag 300
```

## 23

```

aaagtctcaa tatatggcac agtgcttcat ttcttttttt catctagagt gccttagcca 360
ttctttggctt tctgccgttc cacaatatgc aatgtaaatt tgtcagtata atagagaatc 420
cacttatatt tcttcaacag ctattgggaa tatgggtggg attacttcaa ctctatgtat 480
caattttgagg agaattgata tctttataag attaatacaa atcacagcat gtcaaaattt 540
ccttattagg gtagttttta tgccttcaa aaacactgta ttttcttcat atagatctaa 600
gaaaactttg gtgttttatt ctaagaaatt tatagtctct gttttgtaaa tgatatctat 660
tcttaagtta cacttaaaact tatttggtgc tgtatataga aatggaattg acttctatgt 720
acagcagttg caaactgata ttcatatgca gaaagtgaat ctagaccctt aatggataaa 780
agacttaaat gtaagacctg aaagtatgaa actactagaa gaaaacatat gggaaacact 840
tcagtatcct ggcctgggtg aagattttat ggagaaaacc tcaaaagcat aggcaacaaa 900
agcaaaaatg gacaaatagg attatatcaa actaaaaaga ttcagcacag taaaataaat 960
aatcwataga gtgaagagac aaccttcaga agatatattg aaactattca tctgacaagg 1020
gattaatatt tagaacatac aaggacctca aacaactgag caacaacaac aaaaatatcc 1080
aattttaaaa atgggcgaaa gagccaaata aacatctctg aaaaccagac gcaagtggcc 1140
aacaggtata tgaaaaaaa aaatgctgaa caccgcta atcatcaggaa atgcaaacca 1200
ataccacaat gagatattat ctcatwtggt ctattatcaa aaaaaaaaaa aaaaaa 1256

```

&lt;210&gt; 39

&lt;211&gt; 666

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 39

```

tggcacctgc aggactgcga agatctcctt ggcgctgcgg ggccattggc ggggatgggc 60
gggggagggg ggcctcgacg gtttcccatc cccctctggc aaccctaate ttccttctcc 120
atctgggccc tggggcgctc tccaccaccc aggcgggatg ctttaaaaaa aattgctttt 180
taaagtgtct gtcgttgaaa gaaattagtc ttacccttga agtcargggc gcgtcctcgc 240
aatacacatc ttgttaggga aagtgttcgg ctccagctak ggttctacaa ggcgtttctt 300
gttcaccgcc ggagggaagc aggcctccga gtgactgcct tctgaaagtc ggtcttgtaa 360
caattggatg ratgcctttg aagagccctt gtccctattc tatgcttgaa aacagcgtgc 420
agtccaatg ttcaagaacc acgaccacat aaaaacattg ctcccttctt gctgctttga 480
aaacgacccc taaattccgt gtagaagttg ccaggtcgtc ttgacgtaca cttcgtttgt 540
atgatgtttg tctgtcaaat actgtgatgg aagagtgtat gcgggggagg agcagggaat 600
ttttaaaarc attttccggk cacctcagac tgggagatca tgttctttcc tgaaaaaaa 660
aaaaaa

```

&lt;210&gt; 40

&lt;211&gt; 1016

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (6)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 40

```

ctggnctgc atcctcaaca tcctcaaagg gtacaacttc tcccgggaga gcgtggagag 60
ccccgagcag aagggcctga cgtaccaccc catcgtagag gctttccggg ttgcctacgc 120
caagaggacc ctgcttgggg accccaagtt tgtggatgtg actgaggtgg tccgcaacat 180
gacctccgag ttcttcgctg cccagctccg ggcccagatc tctgacgaca ccactcacc 240

```



```

gatctcctac tacaagcccg agttctacac gccggatgac gggggcactg ytcacctgtc 300
tgtcgtcgca raggacggca gtgctgtgtc cgccaccagc accatcaacc tctactttgg 360
ctccaaggtc cgctcccccg tcagcgggat cctgttcaat aatgaaatgg acgacttcag 420
ctctcccagc atcaccaacg agtttggggt accccctcac ctgccaattt catccagcca 480
gggaagcagc cgctctcgtc catgtgcccg acgatcatgg tgggccagga cggccagggtc 540
cggatggttg tgggagctgc tgggggcaca cagatcacca cggccactgc actggccatc 600
atctacaacc tctggttcgg ctatgacgtg aagcggggcg tggaggagcc cgggctgcac 660
aaccagcttc tgcccaacgt cacgacgtg gagagaaaca ttgaccaggc agtgactgca 720
gccctggaga cccggcacca tcacaccag atcgcgcca ccttcacgc tgtggtgcaa 780
gccatcgctc gcacggctgg tggctggcag ctgcctcgga ctccaggaaa ggcggggagc 840
tgccggctac tgagtgtctc aggaggacaa ggctgacaag caatccaggg acaagatact 900
caccaggacc aggaagggga ctctggggga cgggcttccc ctgtraagca gcagagcagc 960
acaataaatg aggccactgt gccaggctcc aggtgcctcc ctggcytgtc tcccca 1016

```

<210> 41  
 <211> 423  
 <212> DNA  
 <213> Homo sapiens

```

<400> 41
agtgagctgt gattgcaaca ctgcacttca gcgtgggcaa cagagtgaga tcttgtctca 60
aaaaaaagaa ataatactag tttttgtttk tagattttgt atcctgaaac tttactgaat 120
gttttttagt tcgaacagtt tttttggtgg agtctttagg attttctcta cttatgatcg 180
tgtcatctgt aaacagagac agttaacttc ctcccttccr atttagatgc cttttctttc 240
tcttgccata ttgcctaatt acagcatgtt cctattctgt aaatgttcaa tgaactagar 300
aatgattctt gggtagttaa tattgtcaat gttgatgaac tcttttctct cgctgaaagc 360
agctactttg ttggagggtt caattctgctg tggcaatttg cagcatttct agtggtactg 420
ctc 423

```

<210> 42  
 <211> 961  
 <212> DNA  
 <213> Homo sapiens

```

<400> 42
gcctctacca cctcagttac agacaccacc aaggtcaaac agtgtatttg ctgtcaacca 60
agctgtgtca ccaaactttt cacaaggatc tgccataata attgcctctc cagtccagcc 120
tgtactccaa ggaatggtag ggatgatccc agtatctgtg gttggacaga atggaaataa 180
cttttctact cctcctcggc aggttcttca tatgcctttg acagcacctg tatgcaatag 240
aagtatccct caattccccg tccctccaaa atctcagaag gctcaggagc taagaaacaa 300
gccttgataa ggaraacaag taaataatth ggtggattcg tcaggtcatt cagttggatg 360
tcatgcacaa aaaactgaag tttctgacaa aagtattgcc acagatcttg ggaaaaaatc 420
agaagaaacc acagttccct tcccagaaga gagtatagtt ccagctgcta aaccatgcca 480
cagacgtgta ctctgtttcg acagcactac tgctcctgtg gcaaatacgc agggggccaaa 540
ccataagrtg gtgtcccaaa acaaagaaag gaatgcagtc tcttttctta atcttgactc 600
acccaatgtg tctccacct taaaaccccc ttctaataat gctatcaaaa gagagaaaga 660
gaagcctcct ctgcctaaga ttttatctaa atcggaagt gccattagcc ggcataccac 720
cataagagaa actcaatcag aaaagaaagt ttcaccaaca gaaattgtgc ttgaatcttt 780
ccataaagca acagctaata aggagaatga attatgcagc gatgtaggaa agacagaaaa 840
atccagaaaa ttcaaaacta tctattgggc agcaaaatgg gggtttgca agtgagaaat 900
ctatagcttc actgcaagaa atgacaaaaa aacaaggcac atcttcaaac aataaaaaatg 960

```

t

961

<210> 43  
 <211> 545  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (12)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (34)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (142)  
 <223> n equals a,t,g, or c

<400> 43  
 ccaccgcggt gncgaccgct ctagaactag tggntccccc gggctgcagg aattcggcac 60  
 gagttggagt cctttgctgt tcccaatttg tggagagtg aagacatcac ccaaatcgtg 120  
 gccaaactatg ggctcatatg tnttactcgg gctggaaatg atgctcagaa gtttatctat 180  
 gaatcggatg tgctgtggaa acaccggagc aacattcacg tggatgaatga atggwtcgtc 240  
 aatgacatct catccacaaa aatccggaga gccctcagaa ggggccagag cattcgctac 300  
 ttggtaccag atcttgtcca agaatacatt gaaaagcata atttgtacag ctctgagagt 360  
 gaagacagga atgctggggg catcctggcc cctttgcaga gaaacactgc agaagctaag 420  
 acataggaat tctacagcat gatatttcag acttccatt tggggatctg aaacaatctg 480  
 ggagttaata actggggaaa gaagttgtga tctgttgccct aaactaaagc ttaaaagtgt 540  
 agtaa 545

<210> 44  
 <211> 377  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (301)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (347)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature

<222> (359)

<223> n equals a,t,g, or c

<400> 44

```
cgatcaccccc cgaaccattt catcacgtat tcttcagtgg ctggacgagg agctgccccga 60
cctgtccgtg tctcgagaa gtagccactt gcactggggc attccggtgc ccggggatga 120
ttcgagacc atctatgtat ggctggatgc cctgggtcaac tacctcactg taattggcta 180
cccaaagtct gagttcaaat cttgggtggc ggccactctc atatcatagg taaggacatt 240
ctcaaattcc atgccatcta ttggcctgcc ttctgttar gggccggcat gagcccgcca 300
nagcgcatct gtgttcatt cccaatggaa cagtctgtgg gccaaanatg tccaagagnt 360
tgggcaagtg gtggatc 377
```

<210> 45

<211> 440

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (387)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (416)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (436)

<223> n equals a,t,g, or c

<400> 45

```
ttggacatcg tggccaactc tatcaagacc acaaatacca cttacaatta attttaaatt 60
attcatctgt acatagtttt ctaaaatgta tataattcaa acagagcatc ttgtaactga 120
agacacacca tatctatgat atcgcattag tccatgtggg gaaaagaaag atcagattgt 180
tactgtgtct gtgtagaaaa ggaagacata agaaactcca ttttgatctg tactaagaaa 240
aattgtttct gctttgagat gttgttagcc tataacttta gcccactc tgtgtgcaca 300
gaaacatgcg ctgtaatgga tcaaagttaa atggatttag ggctgtgcag gatgtgcctt 360
gttaacaata tgtttggcag gcggtangcc ttgggtagaa gtcacggcc attccnccat 420
tccccggttt aaccnngggg 440
```

<210> 46

<211> 525

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (345)

<223> n equals a,t,g, or c

&lt;400&gt; 46

```
gtccggctgg gccgggacaa aagccggatc ccgggaagct accggctgct ggggtgctcc 60
ggatTTTTscg gggttcgtcg ggcctgtgga agaagcgccg cgcaacggac ttcggcagag 120
gtagagcagg tctctctgca gccatgtcgg ccaaggcaat ttcagagcag acgggcaaag 180
aactccttta caagtcatc tgtaccacct cagccatcca gaatcggttc aagtatgctc 240
gggtcactcc tgacacagac tgggcccgc tgcgtcagga ccacccctgg ctgctcagcc 300
araacttggg agtcaagcca gaccagcttg atcaaacgtc gtggnaaaac ttggtcttcg 360
ttggggttca acctcactct ggatgggggc aagtcctggg ttgaagccac ggttggggac 420
aggaagccac agttggcaag gccacaggct tcctcaagaa ctttctgatg gagccyttcg 480
tccccacag tcaggytkag gagttctatg tctgcatcta tgcca 525
```

&lt;210&gt; 47

&lt;211&gt; 414

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (403)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 47

```
ttagaaagar agggggctgg gggccgagac ttctgggtcc ctgtatgttg cagagggttg 60
catgtcatct ccatggagaa ggctgtgtac gctgtcacgc aatcccttgt aagaggccag 120
gccctggggg gaggaggag cagctgtggc tcacacagcc ccaggaaacc acctcttct 180
tcagtgaagc agatagatag agaatcccgt gacagtgaca ggcaagtga tagccagata 240
gaaagcattt ttgtgtaata actaattttt gtttgcttct ctctctctct tccccgccct 300
ccccatccgg attcccgtgg ctgtgtgcat ctctgsctg tgtccccatg totgcccga 360
gtgcgcttct ccgagaaggt cactgtccat tcctgggtgt ctnggcaagg ccgg 414
```

&lt;210&gt; 48

&lt;211&gt; 323

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (11)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (274)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (321)

&lt;223&gt; n equals a,t,g, or c

28

&lt;400&gt; 48

```

tcgggtccgg nattcgccgg tgccggggac agaaacctcc tgccttctta gttcataacc 60
cccccttaca ttagattcta accctgtggg gatttttaggt tgggatttgg gcgcctgcag 120
atggctccga agccagcctc ttgtgatccg agccacttct ctggcactcg gagecgtggc 180
accgcgggag cccttgggtc accggaccgc ctgggaacct ggccggggtc tctggcagcc 240
tccaggggct gaggttcaga ctctgttccg cctnaccag gtccacacct ggatagggct 300
gggagttgag gcttgggttt naa 323

```

&lt;210&gt; 49

&lt;211&gt; 841

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 49

```

tcgacccacg cgteccgsaga tttcagcctc acataactaag taaatactga taaataagga 60
aattagaaat ttagtattca taattaaata tgctctaaaa tttcckrtac ttttatttcc 120
tgtttattct taggttagatt ggaaggggga aacagtctgt tctccctaata taaatttttt 180
ctaataacga ttagtagaat atggacattc tatatgacag tgacattaaa agaggctctt 240
tggaagtata tacattatta acataatgtg tacaagtcct tttgaaatga caactttaat 300
gggtttcagc tcttttatct agagcttgag ataattcaag ctgagttttt cagggcatat 360
cacaacggca aagtgttcag cagtgggata tcaatgctta tttacatttt cctactgcta 420
tttatataaa atgttattcc attcagagga tgccttttat cccacatta aagcacagat 480
cattaagcaa taaaaaccaa attgtctgtc attcaaatta taactgcagt tatttttgca 540
tggtaaagag gaggtgctaa ttttgtgtga gatgaacttt gtaaaactact ttgggaaatg 600
ttctttggaa gtaagggttt ttctccttta gtcttatgct tccacttttg tctcagattc 660
acaatccatt aaaamawggg gaaaaaagaa aargtaaaat tgagagactt ttgttagagg 720
agctatttgg aatgaaccaa cattycasat ttcccaaaat gtaagttagg aagtctccat 780
kgycykgcc attacaaaaa tacactgkta ctatcttaat ctcaagagtg tcattacagt 840
g 841

```

&lt;210&gt; 50

&lt;211&gt; 534

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (423)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (430)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (524)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 50

## 29

```

aggaaattta gaaaatgatg aattcttgtc catttttgta atcaagattt taggaaaaac 60
agaagtacat ctatctttat gaaattttgg gcaggttttt gtgtatcaat attttgtact 120
tttaggggaat attttatttt ttagttattt gtgtcaaatt ataattataa aaggtagacg 180
agaaaaatata ccatgttttt atatagggtc acacctgtac ttaggagggga ccctgtccat 240
ctatatactt tttgtataaa attttaaaat gttaaagatc cacaagggtc taataaaatg 300
attctatagc tagaaaaacc attaccttcc cagtggcttg cactaaaata tacctgggaa 360
aaggaaaccta gaaagactgg taactaatgc ctggaaatgt tctatattga atgtaccatg 420
ccnctggtnn gggaaaaatg tactaataat gggaatggga aataaaccca gaaatccgaa 480
gttaattcca gcctaaaaaa aaaaaaaaaa aaaagggggg gccncccta gggg 534

```

&lt;210&gt; 51

&lt;211&gt; 317

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (222)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (250)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (265)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 51

```

ggcacaggaa aaagcacttt cttaagccta cagtatcaga tcaatgggga aaacaacaga 60
aaactaagag gagaattttc ccgttaattt tcttgcagaa aagtataagt ctaattgccc 120
attgccataa attttgtctt gtactcagag aagcaacatg cactggctca ttttatgtgc 180
aaagaaaaga tttcaccatt aaaaaaatta acttggctag gnatgggtgc tcacactggg 240
gaatcccagn cactttgggt ggctnaaggc agatagactg cttgaaacct aggaattcaa 300
gaccagcctg ggacaac 317

```

&lt;210&gt; 52

&lt;211&gt; 1789

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 52

```

ggcacgagga aacggacaac aatgttggtg ccaaaaactgg atcaggctac cataatcttt 60
tttcttacat tccacttttc tatcttttcc aaatatcca cagtgatcat gtattaattt 120
ttctcttatt ttgatgttgc aaatatattt tttattatgg aaaacggcaa gctacatatg 180
gggaaaaaga aaaattgaaa ttatgcaatg gcctaccact caagagataa ttattaagat 240
tgtgggtgtac ttttttctat atactttttt ttaaaggaaa ggatcttact ctgtcgacca 300
gcccctcacc tcctttgact agctgggatg acagcacatg ccaccatata caagtatttt 360
tgtatttttt gtagagaagg ggtttcatta tgttcaaact cctcagctgg cctgcttgat 420

```

```

ccgatgcttg ttagccttga catttacaat gaacacaagt gtgttgccat cttctgtctt 480
cttcacagac aacttagtag tcaggggaac ttgatgatgg ccaagtggc aagctcctca 540
gggctgtctt ccgtggatac ttgagctgcc ccaggagcca cagcgtctca ggcagctgaa 600
aagtgagtga catgtagggt gtgtgtgtgt gtgtgtgtgt gtgtgtatgt gtgtgtgtgt 660
gtagctgtaa cacctcagcc ttgcctcctt ggccttcaca gcccttgctt tagctttggc 720
tttgagagag gcagaggctc cctcttttgc cctcactgtt atcttggtga aaagccagtt 780
tggcagtttc tttttttaaa aaaatgcaag tatcataatt cagcaatcac atttgggggc 840
aatttatccc agagaaaggg aaatttatgt tcacataaaa acctgaatta acttcaaggg 900
aatgttattt aacaaacagg ttttctcact taactgatta tattcttgat ggatacacia 960
attaaatctt aatacaatat ctccagtggg tctctcaaag ttgtatctgt tttcatgggc 1020
cagaatgagg gaaagtcatt ctggccattc tcttttgcag agaaggcat tctcttttct 1080
atatgaggag catctctcaa ctgcaagggt cagctcaaat atctgtctat gtatagatac 1140
gactttcaaa gtctagatag gaatggcttg aacataccat ccacatttta tggaaaatcg 1200
cttgtttctc ttttcccctg tcttaatctg tttgtgctgt aaacaaaaca aaataccaga 1260
gactggataa tttataaaca gcaggagttt atttctcaca gtttcagagg ctgggaagtc 1320
caagatcaag gtgccggcag gcttgggtgtc tagggaagga tcattcctta tagatggtag 1380
catctagggt tcttcacatg gtaaagggaa ggaagggcaa acagggacct agttgggtccc 1440
cgccagacct ttcataaggt cactagtccc actcatggag gctctacccc catgacttga 1500
tttttcccta aaggccccac ctcttgacac tgttgcatg aagattaaat ttcaacatga 1560
attttggagg gaatgcaaac attcaaaca cagcactccc tcatctatag atttctacaa 1620
ctttcagatt attgcagcaa gtggttccat ctgtaaatca cttggctagc ttatgtgtgt 1680
tgtctctct ccataacaca tcaaccgaag atttccaaca aaagaataat aacttaaaac 1740
aacaacaaaa aaactcactc acacaaagta tgtgtataag caggttgta 1789

```

&lt;210&gt; 53

&lt;211&gt; 654

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 53

```

aattcggcac aggcatgggt gtccctctgt actcagaatg ggttcagscc aagtcggtra 60
aratggatgt tggcaaaata ggaggatacc ctcatattgt gaatggggga cctgctctga 120
gcctgcccag kggccaggcc tgctccaggt taaactggac ggaaggccca ggtctcagtt 180
tctttcaacc aggagaggcc gctgcctaga gcccctcccc accttttctt ggatgggtga 240
ggcaagccag gagagcaagc agtgttgtcc tcacgggagg aggactgagc gactgggaaa 300
actcggctct acatctcacc cagaacggct tttagaaaca ccacagctgg agagtcctgg 360
ctgagccttg ggagtttcag ctctttggcg ggggtgccag gtgccatgcg atcagcgaag 420
cctgcgagtt ggcaggactc tgaggtttcc tgcagaccat gccatgagat tgaagggtgcg 480
gggaaataaa gaaaaatcac catttaggag actccattct ttccctacaa cccagctgtg 540
gtcccagaga tcaggggggtg ttgccagggt tggctgggga aggggtctggg ttcacaaact 600
caccggcact ctttagtccc cgtataacat ggtgggttaag gataaagatc ttga 654

```

&lt;210&gt; 54

&lt;211&gt; 334

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (154)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 54

```

ggcacgtagg ggatgcccac cgccagtcac aggggtgggg gtggtctctg caccttaagt 60
actaacctgc cgcccacgcg cctcctgacc acagcaccac gtgggttttc taattctgtg 120
agctgccctc gtgggcgtgg cctccctgtg gagntcccca tgtgcctccc cttggtccag 180
cctgcagcta ggaagtgggt cacagcgacg gggctgggct gggccaggcc aggctccggg 240
agatgtggaa ttggcgaaac aactgcccc gtagtatcct ccgcctaggr ctccaagagg 300
tggaattgg ggactacgg cgggtaagg cagt 334

```

&lt;210&gt; 55

&lt;211&gt; 474

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 55

```

tgcaaacatg atggatgggg aaagcatagt aactgtactc accaacaaga tgctggagtg 60
acctgctcag atggatccaa tttggaaatg aggctgacgc gtggagggaa tatgtgttct 120
ggaagaatag agatcaaatt ccaaggacgg tggggaacag tgtgtgatga taacttcaac 180
atagatcatg catctgtcat ttgtagacaa cttgaatgtg gaagtgtgtg cagtttctct 240
ggttcaccta attttgara argctctgga ccaatctggt ttgatgatct tatatgcaac 300
ggaaatgagt cagctctctg gaactgcaa catcaaggat ggggaaagca taactgtgat 360
catgctgarg atgctggakt gatttgctca aagggascag atctgacctg aractggtaa 420
tgagtcact gaatgttcag gaagattaga agtgagattc caaggagaat gggg 474

```

&lt;210&gt; 56

&lt;211&gt; 367

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (250)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (252)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 56

```

ccggcctcaa gcaatcctcc cactggcctc acaatgttgg gattacaggt ataagccact 60
gcacacggcc ttactatgct atcaattcca tatatggaaa ggtgttttcc ctttcagagc 120
tcttttaaagc tctgcagaag atttacatgt gtttatagag ctaagagaaa tcagggcatg 180
gaaattgagt gtgtaataaa aattaaactc ttcattgtat ataactatgc ataacttcta 240
tcttcattcn cnggaagtgt cctagagcac catcacagct aggaagcttc catcatggat 300
taccttattt cccaaagcaa gtactccaat aattgtctca agagaggaag gacaactggg 360
taccagc 367

```

&lt;210&gt; 57

&lt;211&gt; 564

&lt;212&gt; DNA



<213> Homo sapiens

<220>

<221> misc feature

<222> (542)

<223> n equals a,t,g, or c

<400> 57

```
caacccccta cagatatcaa gggaccacta tacacattag gatgatctat attgaaatct 60
acatggaaca gagtgggact tctaattgta tgacttcaag attttgcttt gtttaaatta 120
ataactgttt tcagaattaa gtgcttaaaa acaaatttga ttgaaaagtt caagacaaga 180
attttgctct ctatggctgt tccatataaa tttgatgggt gattctgaat gtaaatagact 240
gaagaattaa aaaataagaa attccttttt aaaaggcatg cctcttgac tgtgaacaag 300
acagtagtcc cttaaaccat gaatatgtca gtgttctatg gattacgaaa ttagtaatgt 360
tgcttagccc aaacgtgttt tttaaaaagt atagttttgt acatctcyaa gttatcaaac 420
ttcaaaattg agaacaaatt taaaagtcca tatatgcaac tctagtaage acttaatagg 480
ttacatagca ctggttaaga acaattaatt ttgtttctat attattacta attattatta 540
cnaatcaaaa aacactgtga taag 564
```

<210> 58

<211> 444

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (358)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (382)

<223> n equals a,t,g, or c

<400> 58

```
ggcacgaggg aaaaccataa ctgcctctta atttaacata gaataataca tagttctgta 60
ttttttttta agtgagctta atgggtaagt attttttata tgcttttagct atagctaaag 120
aaaactgata cttaacaaag ttgaatagta ttattcactg gtgctcctaa aatattgttt 180
ttcagtgtaa aatatgcata tcttctatat ttaatatgaa agtcttgaaa tgtatcagac 240
agaagggkat ttcagtttgc aaataatgag caatgtagca attttaacac atttcataaa 300
tatatatatt gtcattgggt gagagcacca tttgttggtt tgaatatact ttaaaggnaa 360
gaggtacaag ggacataaat gntgagatta cctacaggat ggaaatagca gtacagttcc 420
attggtagat attttgaaat gttt 444
```

<210> 59

<211> 347

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (327)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (328)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (340)  
<223> n equals a,t,g, or c

<400> 59  
ttgagctcta aatgcaaaac tcttttatac tgaaaaaaca cttaaagyag ttttgtgtgg 60  
catcacagtg atttgtcatg aaaagccata tatgggggac atgctaaaat ggcttctgaa 120  
tgaaatacga cagcagagaa agatgccact gaaatgctga aattatcttt gctgagcagc 180  
ttttgaatgc taagggttcc agtatgtgac ccaaagaagg agttgtctca actccttggg 240  
acagggttca ttcaaaccac caagctgtga gagtgtgttt atttttaatt ttttaaaagg 300  
tatttaattt ccaaccacac ttcttanntt tttggaaan gacaatt 347

<210> 60  
<211> 322  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (245)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (321)  
<223> n equals a,t,g, or c

<400> 60  
agctggggcc aaaaatagac cagaattatc tgctacttga atgtttggca aaactctcct 60  
agaaaactga gtctgatgtt tgatttgtgt aaagacttct ttaacttttc taactcaatt 120  
tttactaagt tataggacta ctcagatttt gtttcttttt tgctcaattt tgggtcaattt 180  
tgtttttgtc tatgtcacct aagtttycaa atgtattggc atgaatatat ycataatat 240  
ccctnattat cttttacatt tctggggtat cttagcgggt tttccctttt tatccctaaa 300  
atgtttatcc atgctttctt nt 322

<210> 61  
<211> 834  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature

<222> (793)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (810)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (814)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (834)

<223> n equals a,t,g, or c

<400> 61

```

gatatgatgc ccctccttca taattatgta acagttgata cagacacact tctgtctgac 60
accaagtatc ttgaaatgat atacagtatg tgcaaaaagg ttcttacagg agttgcagga 120
gaagatgcag agtgtcatgc agcaaaattg ttagaggcca tcattctgca gtgcaaaggg 180
cgtggcattg accagtgcac tcccttattc gtggaagcag ccttagaaaag actgacaaga 240
gaggttaaga caagtgaact tcgaactatg tgtctgcaag ttgcaattgc agctttgtat 300
tataatccac acctactact cmatacctta gaaaatcttc gcttccttaa taatgttgaa 360
ccagttacma atcattttat tacacagtgg cttaatgatg ttggactgtt tcttggggct 420
tcatgacaga aagatgtgtg ttctcggact ctgtgctctt attgatatgg aacagatacc 480
ccaagtttta aatcagggtt cyggacagat tttgccggcy tttatccttt tatttaacgg 540
attgaaaaga gcatatgcct gccatgcaga acatgagaat gacagtgatg atgatgatga 600
agctgaagat gatgatgaaa ccgaggaact ggggagtgat gaaagatgat attgatgaaa 660
gatgggcaag aatattttgga gattctggct aagcaggctg gttgaaagat gggagattga 720
tgaaagattg ggaagaaaga tgatgctgaa agaaactgct ctggaaaggc tattcccaca 780
atcattgatg atnaaaaaat aaccctgctn gatnaatttc caaatatttt aaan 834

```

<210> 62

<211> 1796

<212> DNA

<213> Homo sapiens

<400> 62

```

aggggcaaac ctaacctggg atctgacggg atgcgttttg ccagctcaga tctcctctgc 60
tactggaaac ttgcattatt tacagccatt aggagctccc tggcttccat tccactcatg 120
actagcttta cctctttgac cccactgtat tattgtctag cccagttcag ctgaatcttt 180
caacacaaaa tatacaggga accccttccct ggggaacttc ctttggtatt gaggtcttcg 240
ctgatggctt cttccatttg atactcagtc tcagtcacag taggattacg gaatcttttg 300
ccagagtatc aatctacatg ggtgctacac attactgaaa aaaattagga acatggtgct 360
agttaattca agtcttcatg taaaacttct tctatcatag tggacattaa aaaaaatctc 420
tctgcaaagt gcattgaccc tacctctagt agatgaatgt tgaacaagta gcctatctag 480
gaagcaagtg actagcatcc atgggcatcc cacaggttgt agtccagccc cgatcttggt 540
ggttgggatt gatgttgctg ccaagtccct ccgtttcatg ttcaggctct gcctatgttc 600
ctggtgtctg gtacctgatt tttcaggatg ctgacattta cttcttgccc acaacaccat 660

```

```

ataccctaag tcttgccaac atctttgaat gtctttctgct ggtctgtctc tcctccgttg 720
ttcttttact atgtcccaag tgcattgcttt gttcagttatc tgcctaagtc tcaggatamt 780
gatttttagct ttttactagg tcctgacatt cccgtagttt cctcttacct ttctggacat 840
gccagacaaa ctctgacctt aggttctgtg aaaactggta cctgcagaat tcctcagtgt 900
ttgtttatat gaaagtccat tgtgcctctt gattgtgggt gagttgagga aaagaggtaa 960
agcagtgggc agaggttgca acatttattt gggttatagga cacccttgct actggagcat 1020
cttgtagggg aatgtagttc agaacatgca tggagaaatg ctgccataga gtagtagtga 1080
catttgggac ttgaaaaaaaa tcttaagagc aggtataatt cctcaacaa cagaagaaca 1140
tcagtgtctt agaatgtttg attttgaact ttcttgatgt tttctctgcc gttctgtagt 1200
gttattctaa ttaaaatctt tcctctaaac tctgtctctt tttttccaat tgagcaaatt 1260
cggcatttat tgaggcccta ctacatgtca tatgtgttct tatttgctgg aaacacaaat 1320
gtgaatatgg taggcctgcc cttaacaat gaattacagt gtaaaatgaa ccttttataa 1380
agctggctct atatcaatct aattattttg tttttcttca tttcaggcct aagacagctt 1440
tattttcttt ccactccaaa taatgaagaa tccccttagg gcaaagaagg aatttctgag 1500
catgttataa aaaaatagaa aataggataa gttgcgtgaa gatttaatat ttctatacat 1560
caaaacctac cataaacaata attaaaaggc aaatagtaaa cttggaagaa catttgaac 1620
ataaaagaca aaagttaaat atcataataa aataagcaca tagtagcttt tagtaaatca 1680
ttgctgaatg aatgaatata tatatgaatt caaagcaatg aaaaaatcac ccaggaaaa 1740
gatgtaaaaa tttgacatag gacaagtcac caaaaaaaaa aaaaaaaaaa ctcgta 1796

```

&lt;210&gt; 63

&lt;211&gt; 1376

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 63

```

ggcacgagtt ttggactagg tgcacagtt attaaaacaa cttttaaccc tcccccttca 60
cacacataca tatcagggtt ttttctagtt aaaaacccaa gtagctcaga ttctacttta 120
atgtcagttc agatttgcat tgaatcatgc cattatgttt tttctcattt ttatgctgtt 180
gggtcttagt ttttaaatg atataaagaa ctcagcaatg gttttatttt ctactcatac 240
ttaggggttta ggaaacacta ccactagtta tcatttaatc aacttcaatg gtctactgaa 300
acaaaaatgg taacttttca ttagtggtt atttagagtt atagtagttg tttccagaaa 360
acacttcctc acaattgtac ttcccaatca aatcatgtga tcatacagtt attcccatga 420
aaggcagaat gtttgtttca aaattaatct agttttctgt acattttaat ttgagaaggt 480
gacaactggc tcttttccag tcttccctca tgtcagtttt ctgatagacc actattggca 540
aacagtatct gtcaactacc aaatgtgtaa aattttctgt atttcacttt gtcttatttt 600
taaatagtga actaaaactt ttggcagatc agcaacattt gctgagcctg ttttttaagc 660
taatgtgtat tcttactaat gttcctatca agaattgatt tgtaatatat gctgtctatt 720
tctaattgtc acattcatat tttgaggttc tatcttattt taatagagaa cagacttctc 780
aaaaaaaaat cagaagcagc ttattattga aatatcgaaa tattgaaata aaccgggtgg 840
ggtttagatta ctcatctgtc caccaagtgg gacatttgca tggactgggg gcttaaagga 900
cttagaagag acctgtaagt aaatcctgaa aatgagccaa tccccacttg aatggttact 960
ggagtaaacc cacccttacc accccaatta cagcaccgga ggccgataaa ccaacttggc 1020
tctggttcat ttttcttttc ttcatttgtg atgctcagat tcaaaatgtg tgttctacac 1080
tgttacaggc ttctcttttg tttgattaaa gatttttagt ctacttttgt atggacacat 1140
tagaatattc agagaccaaa atagaagaat ttgctgttag atatttttca gaagtcagca 1200
gatttgtggc aaatcattta tttgcctttt taaaaattca ttttaagcag tcagagagta 1260
gactactcag aaaattattt cacgtaattg tctaagaggt caatattttt taatgcatat 1320
tgaatcaaat aaagtgtctt aaagaaatta ttctccaaat aaatttttaa aaaaaa 1376

```

&lt;210&gt; 64

<211> 574  
 <212> DNA  
 <213> Homo sapiens

<400> 64  
 ggacagagct gaaaggtggg ggaagggaac gtagacctag agaggggaat tcttacagaa 60  
 atcctctttt tttgggccct tctatttttc agtctccggc agcctcttgg tcatgaaagc 120  
 cctcagattg tcggcttccg ccctcttctg ccttctgctg atcaacgggt taggggcagc 180  
 acccctgggt cgccctgagg cgcagctcct cctctcagct ctgagcataa agagccggta 240  
 gccggggacg cagtggcccg gccaaaggat ggcagcggcc cagaggtccg aggcgctcgg 300  
 aattccgagc cgcaggacga gggagagctt ttccagggcg tggatccccg ggcgctggcc 360  
 gcggtgctgc tgcaggcact cgaccgtccc gcctcaccct cggcaccaag cggctcccag 420  
 caggggcccg aggaagaagc agctgaagct ctgctgaccg agaccgtgcg cagccagacc 480  
 cacagcctcc cggcgccgga gagcccgag cccgcgtccg cctcgccctc agactccgga 540  
 gaatgggccc gaggcgagcg atccctccga ggag 574

<210> 65  
 <211> 603  
 <212> DNA  
 <213> Homo sapiens

<400> 65  
 cccacgcgtc cggctggact gttttgatct cttttaattg ttctgacaga tagttgggga 60  
 tgagagccga ataaggtttg cctgaaataa ctgacactat ataatttctg ctttggcaaa 120  
 tactaagttc taacttgtca ttccctggtag aacaagcttt atttttcgag cctagcaatg 180  
 atctagaagc agatgttata tcagtgcctt ttgcaatttg ttgtgtgggt tttttttttt 240  
 ttaaagccac acaataattt tggaaaacaa tgtatgggta gaacatgtgt ctgttaattg 300  
 cacacaaaac cacttttaat gggtagagag ttaaatttga aggaataagt tcataatact 360  
 gaagctagaa ccaagcagaa tctgtttttt tctgaggagt atcggtagca taaatgtgat 420  
 tataaacata gtacacttga tatatggagg cagtgcagc tattttttaca aaatttaaat 480  
 ctgcaaatgg attcaacatg tttatgggtt attaaaattg tctgatttct taggttcttt 540  
 atagtagacg tgttgaaaat aaatgattaa gaattgtttc aagaaaaaaaa aaaaaaaaaa 600  
 aaa 603

<210> 66  
 <211> 1772  
 <212> DNA  
 <213> Homo sapiens

<400> 66  
 tcgaccacg cgtccgggag gatccccagc cgggtcccaa gcctgtgcct gagcctgagc 60  
 ctgagcctga gccgagccgg gagccggctc cgggggctcc gggctgtggg accgctgggc 120  
 cccagcgat ggcgaccctg tggggaggcc ttcttcggct tggctccttg ctcagcctgt 180  
 cgtgcctggc gctttccgtg ctgctgctgg cgcactgtca gacgccgcca agaatttoga 240  
 ggatgtcaga tgtaaattga tctgcccctc ctataaagaa aaattctggg catatttata 300  
 ataagaacat atctcagaaa gattgtgatt gccttcattg tgtggagccc atgcctgtgc 360  
 gggggcctga tgtagaagca tactgtctac gctgtgaatg caaatatgaa gaaagaagct 420  
 ctgtcacaat caaggttacc attataattt atctctccat tttgggcctt ctacttctgt 480  
 acatggtata tcttactctg gttgagccca tactgaagag gcgcctcttt ggacatgcac 540  
 agttgatata gagtgatgat gatattgggg atcaccagcc ttttgcaaat gcacacgatg 600  
 tgctagcccc ctcccgagc cgagccaacg tgctgaacaa ggtagaatat ggcacagcag 660

```

cgctggaagc ttcaagtcca agagcagcga aaagtctgtc tttgaccggc atgttgctct 720
cagctaattg ggggaattgaa ttcaagggtga ctagaaagaa acaggcagac aactggaaag 780
gaactgactg ggttttgctg ggttttcattt taataccttg ttgatttcac caactgttgc 840
tggaagattc aaaactggaa gkaaaaaactt gcttgatttt tttttcttgt taacgtaata 900
atagagacat ttttaaaagc acacagctca aagtcagcca ataagtcttt tcctatttgt 960
gacttttact aataaaaaata aatctgcctg taaaataaat taaaaaatcc tttacctgga 1020
acaagcactc tctttttcac cacatagttt taacttgact ttccaagata attttcaggg 1080
tttttgttgt tggtgttttt tggttggttg ttttggtggg agaggggagg gatgcctggg 1140
aagtggttaa caactttttt caagtcactt tactaaacaa acttttgtaa atagacctta 1200
ccttctattt tcgagtttca tttatatttt gcagtgtagc cagcctcatc aaagagctga 1260
cttactcatt tgacttttgc actgactgta ttatctgggt atctgctgtg tctgcacttc 1320
atggtaaagc ggatctaaaa tgcttggtgg cttttcacaa aaagcagatt ttcttcatgt 1380
actgtgatgt ctgatgcaat gcacccatga acaaactggc catttgctag tttactctaa 1440
agactaaaca tagtcttggt gtgtgtggtc ttactcatct tctagtacct ttaaggacaa 1500
atcctaagga cttggacact tgcaataaag aaattttatt ttaaacccaa gcctccctgg 1560
attgataata tatacacatt tgtcagcatt tccggctgtg gtgagaggca gctgtttgag 1620
ctccaatgtg tgcagctttg aactagggct ggggttggtg gtgctcttct tgaaaggtct 1680
aaccattatt ggataactgg ctttttttct tcctctttgg aatgtaacaa taaaaataat 1740
ttttgaaaca tcaaaaaaaaa aaaaaaaaaa aa 1772

```

&lt;210&gt; 67

&lt;211&gt; 1829

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 67

```

cggcacgaga ttggagccta tttagtggat tttatgcagc caaagatggt tcttggtgtt 60
gttggtgttc ttgcttttaa ctaatttgcc tcccaggaga cagttgaaat gtctagagac 120
atthttgatta ttatgcctgg caggacgcca ctagtggcat ctagtggatg gagggtaagg 180
gtgctgctaa gcgtcctccc atacacagga cagcaccccc cacaaagaat tatccaaccc 240
caaatgtcag tagtgctgag gctgagaaac cccactctgc tctctaacca aaattagaca 300
cagaaagtgg agacattcta ccaccctgac aacatcaatg gcttttgccc atttaaaaca 360
agaaagagga atatgtatcc aacccaaaac aacatcttaa cattctttct aataggcttt 420
tgcaaaaata gttcatattt tataactgtc ttgcagcatg ggggtataagt gtaatcattg 480
taaaaatgaa acctaatacat tgtaaaaatg aaacctaata atggtaaaaa tgaaaagagt 540
gcctcaaaac atctgaagtt ctttagcaaaa ggcagcctgt cttcagtggg cacttttgga 600
tgagggcagg actaggggtat cagtaggagt gagaacaaag gtcagaaaaa tgagtacaca 660
gcacatgtat actgattaat ttctttcttt tttccttctt ttgatggagc aagactgtaa 720
cagaagcctg agagtgagga agggcttttg caactattac tgtagacaca gtagtttact 780
caatthttatg aactcttagt cctgggctgg aattcacgcc tctgctggaa ttgcacagac 840
aaaacgtgct tgcgaggagt aagggtggca caaaagaaa atgcaggcaa aaacacgcct 900
cattttgaaa ccggatctga gcacccatga gccagagcct ctcccagcca acattgctga 960
gttgagcaga gtgacagact ccacactgga gccagccccg cagctggcca taaggaggag 1020
ccacgagcag gtgctgggaa gacaggcttt tgaacgcaca ctatgctgat gtctctttct 1080
gtgaagtttt ctacatgagt gacgttctca aagtctgcaa cacagtctgc catgagatgc 1140
cttttttctt ctgggaacac aatgctactt tcgtgattgg ctgagtaatg gccccaaag 1200
atgtactctt catcctaate cctggaacct gtaaacatgt taccttatat ggcaaaagag 1260
acttcgggca ggcacctgtc atcccagata ctgaggaggc tgaggcaaaa gaatcgctca 1320
aacctgggag gcggagggtg caggggagcca agattgtgcc aatgcactcc agcctgagca 1380
acaaagttag actctgtctc taaaaaaaaa aaaaaattt ctcagatgtg actcagtga 1440
ggattttgag atgggggagag tatcttggat tagccaggtc tgtgagaact cctgacgtct 1500

```

## 38

```

gaagcttgac tcccaagttt ccatagcaac agggaaaaaa aaaatctatc caaatctgaa 1560
gattgcggtt tacagctatc gaacttcaca actaggcctc aattgttccg gttttttatt 1620
ttctttacaa tttcacttag tctgtacttc atcattttga cagcatcttc ctccctcctt 1680
taattaatgg aatcttctga attttccctg aatgtttaaa gatcatgaca tatgacttga 1740
tcttctggga gcaggaacaa tgactacttt ttctgggtgtg ttaacatgtc ggtgccgaat 1800
tcgatatcaa gcttatcgat accgtcgac 1829

```

&lt;210&gt; 68

&lt;211&gt; 1688

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (912)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 68

```

accacgcgt ccgctcatgt ggacttatgc cagtctagag gcagaatcag aaggcttggt 60
tgaacatata gctttccctt ttctctctcc ctccgcccct cccagtacag tccatctttc 120
aatgttgcag cctgggtgag aaggagagaa aaagggtggca ggaatttcca ggagatcccc 180
aagaatgctg ccttgtctgt ggacaaagat ggaccatgtg cccttcggaa ttagggatag 240
aaacaaatat tgtgtgctct taacgattaa gctgtgttat ggtgggtttt cagggttttta 300
ccttttttct ttaccctttt actctgcaag aatggggaaa gaatgcatac tgcgaaaatg 360
agtcttttaa attctgtctg cctactagtt ttaagtatat ggtatgttgt aaaatttcca 420
atgatgagag acagcacaat aaatgtacct tatctcctta ggctgaaggc cataactaca 480
tagtggagta atttaagaac tctcttgcc tcccaaccc aaaagggtgc tttttgatag 540
caactggcta atgaattttt aaaaagagaa gaaaaatact agttttcccc tcttttggga 600
aatagatttt aaatggctaa actactagcc ttaaaactac tagtctataa atcaactacc 660
acttttgtga atctgacagg ccacattttt atatggccct ttacagaatg gagtgtgttg 720
aacaggatac taacgccatg gagttgagct gggcctagcg atggagggac actctaacac 780
aactttccct cagctattat gcaacagatc agggaaaaag atgggatgac agatggggtc 840
agacagaaag agcttctggg aaacaagctt acatagtctt ttttaaaatg cacaaagcct 900
cccagctaag angtcacttg gtttgggctt cattaggact ggagactttg ttggagttct 960
ttctgggaac ttggagagtg gatgatattc aggcctctgaa acattcccag cgctctcccg 1020
aggggtgccac tttctcaaga tgaaaactgt gactgaaaaa attaataata aatgtttctg 1080
agctgcctgt gttctccctg tgtgggtgag agaagggact agactcctaa gcctgcctca 1140
gatacaagag ggatcattgg ctccaatttt agagaacttg aaagcaaggc tttggacaaa 1200
attttgagac cctaactact ttaccttctt ccaattacc caacatacgg taaacaacat 1260
ttgtgcagaa gtatgtatgt atttagttca ggttgacttg tgtccttata aactgttact 1320
caaatgattt gaacttttat gcgactggga tttttttttt ccaaagctac aagcatggcc 1380
gcctgtggta tcgaggtgtt gcaaacaata tctgtgttgc gcttctgtt ttaacctacc 1440
tcgttttgtt tgttttttgt tcaactgttc tcaacagcagt gttatctcca ggagacatat 1500
agagagctca accggcaatc tcaggtgcat ttaacatttt taaaacgaaa cagtagttga 1560
ccaaattttt cttcttaaaa aattggaagt ggggggaatc caatgacaaa aactaatgtg 1620
gcttgtttct ggagaaaata attactgtaa atggaacaac aacaacaata aaacacacgt 1680
taaacatc 1688

```

&lt;210&gt; 69

&lt;211&gt; 565

&lt;212&gt; DNA

<213> Homo sapiens

<400> 69

```
tcattttgtg gacgaatatg atccaacaat agagagaaca aattaaaaga gttaaggact 60
ctgaagatgt acctatgggtc ctagtaggaa ataaatgtga tttgccttct agaacagtag 120
acacaaaaca ggctcaggac ttagcaagaa gttatggaat tccttttatt gaaacatcag 180
caaagacaag acaggggtgtt gatgatgcct tctatacatt agttcgagaa attcgaaaac 240
ataaagaaaa gatgagcaaa gayggtaaaa agaagaaaaa gaagtcaaag acaaagtgtg 300
taattatgta aatacaattt gtactttttt ctttaaggcat actagtacaa gtggtaat 360
ttgtacatta cactaaatta ttagcatttg ttttagcatt acctaatttt tttcctgctc 420
catgcagact gttagctttt accttaaagt cttattttta aatgacagtg gaagtttttt 480
tttcctctaa gtgccagtat tcccagagtt ttgggttttg aactagcaat gcctgtggaa 540
aaagaaactg gaatacctaa gattt 565
```

<210> 70

<211> 675

<212> DNA

<213> Homo sapiens

<400> 70

```
ccagcatcag aagttctgat ggatgatgac cttcagaaaa gtgtggatat gatcatggat 60
atgttttgtc ctccaggaat aaaaattgat gcatatccgt gggtggaatg cttcatcaag 120
tcatacaatg tcacaaatgg aacagataat caaat ttgct atcagatttt tgacaccaca 180
gttgcagaag atgtaatcta atattgccat ccaatttagc atacataaaa tgttgccact 240
caccttcctt gtttgagctt cttttcctga cctgagtttt gtatcagcaa tgttgatgat 300
gttagcatgg gtatgggatt agaaaatgtc cttaccttaa atctcttggc ttttactggg 360
tgcaaggtaa ataatggcta tggattttgt tttgctttct gttttgcttt tgtacaaaga 420
gacctgctta aacaagtact gctgagataa gtgtctgatc aagctacagt gtactttaag 480
tagaaatggc aaagt ttgctt tgttgggggtg ctgatactga tgattttagg ataaattcat 540
ttcttttaac ttgtaataca tggtttttatt gcttgtttct cyccaggata gtagagattt 600
ctctatttca cctcaamcta ataaaagtgg tcagattttat aatgttaaaa aaaaaaaaaa 660
aaaaaaaaaa aaaaa 675
```

<210> 71

<211> 270

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (247)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (260)

<223> n equals a,t,g, or c

<400> 71

```
ctgagatgcc acaagaagca gcacagtgat cagagtgaga acaagaactc agacttggtc 60
accttccac cggaagcgg tgctcggga cagctcagca ccctgggtctc cgtggggcag 120
```



```

ctcgaggctc ccctagagcc cagccaagac ctctagctca gccgaagagg gtgggtcagct 180
gtcggaactt ctgaccagtg ctgttgccca gccctccaga ggtgaggcca ctgagagaca 240
ggctttnggc accacttctn gggctggccg                                270

```

<210> 72

<211> 538

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (101)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (302)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (449)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (459)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (521)

<223> n equals a,t,g, or c

<400> 72

```

tatctcttgg cagcaggggt tgcaactgag aaacatgcaa ggtgggggat aattggatct 60
tgtgggtcag cctaccaaag tgctgggatt acaggcgtga ncaccatgct cggccagtca 120
gtatcatttt ttaaaaatgt agaacctggg ttgatgactc taattaaatt gtctgccaat 180
tactgaagag ctactacata ctagwttctg ggcttttagt ctaaagccca cagcaacctc 240
atgaataaat attattagcc ccactgtata gatgagataa cagactagga gggagaagtt 300
anggaaactt gcttaatgcc tcctgttttag aaaatagctg aactggaatt cagccctgtc 360
ttccatttca ccctgcctgt gtctcacgca cagaacaccc ggggatccgc tggttcccaa 420
agcactgatg agaaccctaa tttgtcaana ttctgtggnt ccagtaaatt gtgggtccaga 480
atgggtgggtg atctgatttc atattatctg ccagggtgaaa ngtttctgcc tggcaaaa 538

```

<210> 73

<211> 1071

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature  
 <222> (1010)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1048)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1062)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1066)  
 <223> n equals a,t,g, or c

<400> 73  
 ggcaggaggc tgccggggcg cgggctgctg cgggagaagg ggctccgagg agtccgccgc 60  
 ggctcgctct gtcgccggcg cgggattggg gcgcgagggc catgggcgcg ctctcctaag 120  
 gcggaggtcg cgggccccgag gggaggaggc ccgagagagg ctgctgcgaa ggccgcgggc 180  
 ccgtgactgg gcgcgaggcg gccggcggcg gcggcggcac cagcaccacc atgtcgcgct 240  
 cagtgtgca gcccagtcag cagaagctgg cggagaagct caccatcctc aacgaccggg 300  
 gcgtcggcat gctcaccgcg ctctacaaca tcaagaaggc atgtggagac cccaaggcaa 360  
 aaccatccta tcttatcgac aaaaacctgg aatctgctgt gaaattcata gtcagaaaat 420  
 tccctgctgt agaaaccgcg aacaacaatc aacagcttgc acaactacag aaagaaaaat 480  
 cagagattct gaaaaatctg gcattatatt acttcacatt tgtagatgtt atggaattta 540  
 aggaccatgt ttgtgaattg ctgaatacta ttgacgtttg ccaagtcttc tttgatatta 600  
 ctgtaaaactt tgattttaaca aagaactact tagatttaat tataacctat acaacactaa 660  
 tgatactgct gtctcgaatt gaagaaagga aggcaatcat tggattatac aactatgccc 720  
 atgaaatgac tcatggagca agtgacagag aatacccacg ccttggccag atgattgtgg 780  
 attatgaaaa cccttttaaag aagatgatgg aagaatttgt accccatagc aagtctcttt 840  
 cagatgcact aatttctctt caaatggtat atcctcgaag gaatctttca gctgaccagt 900  
 ggagaaatgc ccagttattg agcctcatca gtgcacctag tacaatgctt aatccagcac 960  
 agtccgacac tatgccttgt gaatacctct ctttgggatg caatgggaan attggattat 1020  
 ctttggcttt atttgtgcca tggggatnct taaatacttg angctncagt a 1071

<210> 74  
 <211> 640  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (93)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature

<222> (96)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (619)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (624)  
 <223> n equals a,t,g, or c

<400> 74  
 gttgcagtga gccgagatca caccactgca ctccagcccg ggtgacagag caagactccg 60  
 tcataaatga ataaataaat aaataaataa tangtnacga tccattgtgg ctccctggaa 120  
 acatccatgt tcacagctgg ggtctgggtca gtctgcatag tggagcacac tgctaggatg 180  
 catccttagc aagtgaaaaa agtgaggctc agaactgttt gtagagtata gccttttata 240  
 taaggaaggc agatgaagac tggcttatga taaagggtgct aacccccaga ctagtaaaaa 300  
 tgggggtccc tgtggagtag ggaaggggca gtgttataag ttggatttct ggccatatct 360  
 gctatagtac tgatcatgga actctagggg aggaaagatg ttttccttct acccatctta 420  
 tgttcattgg ctggggctcc tggacagaa gacagatttc caaagagaaa ggcacacmaa 480  
 tttatgtaat ataagtttgc catgacmtgg gagcctttat aaggaaatgac cccaaggaaw 540  
 tggttaaacc tgagtgggtt tgtgtaaggt tttaatgagc aatgaaaagc tatggggacc 600  
 tatgatagga ggatgtaanc taanccaatg acctggggga 640

<210> 75  
 <211> 507  
 <212> DNA  
 <213> Homo sapiens

<400> 75  
 ggagcttcaa catatgaatt ttcagggtta tcattcagtc caaagtactt aakatgattc 60  
 ttttccgttt ccacatagac aatcacataa tctgtaaata atgactctta cttttccact 120  
 ttagtcgtta gggtatacct atatatatat wwwmwgtgctt tactggacta atttcaacct 180  
 ccagcacacc accaatgaat agcagtaata ccagcataat tgtctgcagt tctgctgaga 240  
 tacgtgctct attttatttg cttggctgta ggttttttatt ttattttttg aagaggctaa 300  
 tctcttacag gaaagggttc tttttatata cagtttttac atgatgaatg atttcccagt 360  
 atttcataat tcatgaggct gaattcctct tgaatttatt aaatgcttcc tgtgcatcct 420  
 ctgtgatgat catgtttatt tactgctaga actcaagtac ctagaactgt tcctggccaa 480  
 tgatggtatg taataaatac ttcaatg 507

<210> 76  
 <211> 1390  
 <212> DNA  
 <213> Homo sapiens

<400> 76  
 ggcacgaggg agtctgatgg ggagaagaag taccatgcc ctgaatgtgg gagcttcttc 60  
 cgctctaagt cctacttgaa caaacacatc cagaagggtgc atgtccgggc tctcgggggc 120  
 cccctggggg acctggggcc tgcccttgcc tcacctttct ctctcagca gaacatgtct 180

## 43

```

ctcctcgagt cctttggggt tcagattggt cagtcggcat ttgcgtcatc tttagtagat 240
cctgagggtt accagcagcc catggggcct gaagggaaat gaggcagctg ctgtgtcccc 300
acggaaacaa ccatctgggg actgctggga aatgctgtga atgcggaggg aagtgatgtt 360
tgggttctgt agctgagaga tttttattca tttttaactg ccccccaacc ccaactccaac 420
tccttctcca ccaccattc tcccaatggt ctttagaaat agattttcat ctgatattct 480
gcagaaatat caatgagact tggatatgga caggggcaga aaacactaca taggcctcca 540
aggcaaaacc agtcccagtt tctttaatgg gaagaagctg gaattcctgg tgctcaattc 600
ttagtgaccc caatcctata cccaaatcta tgatattctg ggacctcagt gatttttggtc 660
ccctccact tctctagttc gtcacctcc cttcccatat ccttcaaaag aaccacacta 720
gggtctccac ctacttatac aatgcggatg cccaactgtt ttaaggaag ccagaagcat 780
cccatggacc atggggtgag tgcctccaa gagccccctg agctcagccc tctgcctgga 840
gggctccaga cttttctgag ccctgcttgg aggcgagcat tttcactgct aggacaagct 900
cagctgttga ggacaccccc accccaaatt tcagttctta cgtgatttta accattcaac 960
atgctgttgg gttttaattc tctaattatt attattattg ttattatttt ttaggaccag 1020
ttgtagtga ttgctactga aagctatccc aggtgataca gagctctttg taaaccgcag 1080
tcacacatta gggtagtat taaactttgt ttagatgtac cataattaac ttggctagtt 1140
gattgtttga agtctatgga agaaatagtt ttatgcaaaa ttttaaaaaa tgccagtctg 1200
gtcaggaag tagggggtt caatgctgtt gggaaccagg aagggtgggac agccggcagg 1260
tagggacatt gtgtacctca gttgtgtcac atgtgagcaa gccaggttg acctgtgat 1320
gtgaattgat ctgatcagac tgtattaaaa atgttagtac attaaaaaaa aaaaaaaaaa 1380
aaaaaaaaa

```

<210> 77

<211> 782

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (34)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (738)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (748)

<223> n equals a,t,g, or c

<400> 77

```

gggcacgagc tcgtgccgaa ttcggccang aggnacctga gcagtctaac tactccagtt 60
agacctaaag gcacaaatgc agaattcatg accttgtagt tgtggcaggg tctaggaagt 120
cctctctccc caagtagaaa atattctctt gccattcctg aaattccaca ttcataataa 180

```

## 44

```

ggctgtgcaa tacatgcttc tcaataagaa aattaactgc atgtttactg tgtgctgata 240
acatcagatt tttatgttta aaaaaatctc attatggatt gaggccagcc cagctctaag 300
agaaaaagaa ggcccatatg ggagacttca stctcattat tattgccttt atccagcagt 360
gcttatgaag cccctaccc tgtcccatc cagaaacat aagactcagg cagttcttga 420
ttctggaggc ctgcctggta agataagata gtataatttg gaactgagaa cataccagaa 480
acagcagaac gagggccaga gcagaaaaat gaaaataagt ggagacactt atggatacat 540
tggtgcaaaa aaagccacgg agccatact gggcttgata tgactttgag gggacagcag 600
attaatactt aatgagggtt aaacctgacc agtctttcta cagtgcagg ccacactgca 660
tgaatgggga gaaccaatga atccattgtc ctctgcctat tttcctgtgc acagtcacat 720
tcctcctta agaatctncc ccttccancc tttacattaa ccaagggaca ctgaatcttt 780
ca 782

```

<210> 78

<211> 278

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<400> 78

```

cttctcgntg cccgtgcaaa ggctccnctg cagaagacat cctytggcag cctgctcttc 60
tgetgctcct tttgctgctg tcccatgtgc tctgagaat gagaaccctg cctttgcaac 120
aaaccatgcc ccggtaaatg caaaaccaca tgctctgtgc cccgagagaa aacctctaac 180
cagcaaggaa aatgtattga tgcattcctc cattttggca cctgraagag agtcttggrg 240
aactgcagga gagggggaaa actggaaaaa aaaaaaag 278

```

<210> 79

<211> 828

<212> DNA

<213> Homo sapiens

<400> 79

```

gccaatcaat gagcagtata gagaatttct ggaagggaga cacaagaagc tgtagaaaag 60
ggcggcttcc agggaagttc tagggagtct gggatgaatg agaaacttat cctaacaact 120
tttgggctct ctgaattttt tttagtatct gcaagtattg tacttggtca aatatgttta 180
aggctgcagg ctgtattcta aaactcctga aagtgagaac caggtttcac tcatatttcc 240
atcttttcaa cccctagatc agtgacttcc cagggaagta gtacctgcat ttgggggttga 300
cctttggggt tcccctgtac tgggtctggc tggcctggct ggaccactgg stggctgggt 360
ggctgtgacc tagcccttcc tttctctttg ctctctgtgc aaatgagagt gttgggtctga 420
acgatctcta aagcctggaa gaggagcaga tctctgtgc tcagcccca ctctgtgtca 480
gggaggcctg gcaaccacag tgttctttct cctgtttatt tgttcttgga tcttcctgaa 540
gccatttcac caccagcctt catcttctct gccagcccca tggagactca agctttttcc 600
agcctatgtc aggaaggag aaccagagac agcaacctcg ggtgtgaagg ggtcagctc 660

```

<213> Homo sapiens

<400> 82

```
tgacagaaaa attcaatcct ttattttttt ctctgtaaat gcacgggcta tgagatagca 60
acaaaaaatg catagttaat ggcatagac ttatttccaa aacataattg gaaaatagaa 120
wctgagccat tgccaaatgg taaagaaatg aaaagttttc acagtgacta ctgaatatac 180
caagagcttt tggcagtact gctggctttc tgggtgatta attaggtaaa cttggaatat 240
tcccagtaaa agtttgagaa tgcataaaat tataccattt tgaaaaatat aa 292
```

<210> 83

<211> 352

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (291)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (345)

<223> n equals a,t,g, or c

<400> 83

```
ggcagcagtk aaacttgctg ttttgttctt gtgtcttgtc tttggttggt atttcagtaa 60
gttttttgta ttctcaaatt ttatctaaat ggataaacta ttaacataga acataaacc 120
caattctcca ttctattttt ctcttaggca tgaatcatatc aaaactcaat atagagcaat 180
gtttgtaatg aattgttcta ttaacaaaga ggagggttcta agatrtaag cctcagagga 240
acaggaagga aaaggcgggt ccataaggaa gatgagggtc taaccgggga ngatgctgct 300
tgaggagggc cagagacagt tgtgggagga aatcttttca ccccnttcat gt 352
```

<210> 84

<211> 404

<212> DNA

<213> Homo sapiens

<400> 84

```
cccccccctt tttttttttt tttttttttt tttttttttt tgcgattgct ttaaagaaag 60
ctttatttac tacatacatc ctaagaatgt actgtaaatg gagcaagatc taaataaaaag 120
cttttcaaat ataaagcagc taaagttaac taaaccacta gcaatgtttg aaaacagaac 180
tctaaaactt tttttttaca tttatatagt ttgttcttaa cactaaaaaa aaaaaagttc 240
acatttcaag ttataaactt acctcagtag tgtacatgaa atgggtttga aacaatagga 300
acagataagt cccagatagg rggtcactg atacttaatt ggccatgtca ccaatgtttg 360
tttttaaggg rgtttggtgg ttgccatggt tatcattttt tttt 404
```

<210> 85

<211> 1555

<212> DNA

<213> Homo sapiens

&lt;400&gt; 85

```

ggcacaggac agtctcatga ttataactgg tccttcaagt atacagggaa tataataaag 60
ggtgttataa acatgggttc ctacaactat cttggatttg cacggaatac tggatcatgt 120
caagaagcag ccgccaaagt ccttgaggag tatggagctg gagtgtgcag tactcggcag 180
gaaattggaa acctgggaca agcatgaaga actagaggag cttgtagcaa ggttcttagg 240
agtagaagct gctatggcgt atggcatggg atttgcaacg aattcaatga acattcctgc 300
tcttgttggc aaagggttgcc tgattctgag tgatgaactg aaccatgcat cactggttct 360
gggagccaga ctgtcaggag cmaccattag aatcttcaaa cacaacaata tgcaaagcct 420
agagaagcta ttgaaagatg ccattgttta tggtcagcct cggacacgaa ggccctggaa 480
gaaaattctc atccttgttg aaggaatata tagcatggag ggatctattg ttcgtcttcc 540
tgaagtgatt gccctcaaga agaaatacaa ggcatacttg tatctggatg aggctcacag 600
cattggcgcc ctgggccccca caggccgggg tgtggtggag tactttggcc tggatcccga 660
ggatgtggat gttatgatgg gaacgttcac aaagagtttt ggtgcttctg gaggatatat 720
tggaggcaag aaggagctga tagactacct gcgaacacat tctcatagtg cagtgtatgc 780
cacgtcattg tcacctctg tagtggagca gatcatcacc tccatgaagt gcatcatggg 840
gcaggatggc accagccttg gtaaagagtg tgtacaacag ttagctgaaa acaccaggta 900
tttcaggaga cgcctgaaag agatgggctt catcatctat ggaaatgaag actctccagt 960
agtgcctttg atgctctaca tgcctgccaa aattggcgcc tttggacggg agatgctgaa 1020
gcggaacatc ggtgtcgttg tggttggatt tcctgccacc ccaattattg agtccagagc 1080
caggttttgc ctgtcagcag ctcataccaa agaaatactt gatactgctt taaaggagat 1140
agatgaagtt ggggacctat tgcagctgaa gtattcccggt catcggttggt tacctctact 1200
ggacaggccc tttgacgaga cgacgtatga agaaacagaa gactgagcct ttttggtgct 1260
ccctcagagg aactctccct caccagagac racctgtggc ctttgtgagc cagttccagg 1320
aaccacactt ctgtggccat ctacagtgaa agacattgcc tcagctactg aagggtggcca 1380
cctccactct aaatgacatt ttgtaaatag taaaaaactg cttctaatec ttcctttgct 1440
aaatctcacc tttaaaaacg aagggtgactc actttgcttt ttcagtccat taaaaaaca 1500
ttttattttg caaccattct acttgtgaaa ccacgccgag ccctatgcag tctca 1555

```

&lt;210&gt; 86

&lt;211&gt; 455

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (430)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 86

```

ggcacgagcc agagccgact gcaaatacact gaactgagct ggcagctgct tagggggttg 60
catgatcaag gcgattttta taacctagaa gggcctggac tgtagaagca gattccagct 120
gaggcccagg cactgccttg ctgtggtgag cacggcggct ctgstcttcc ccgccgagct 180
ttctcatcag tgaagtgggg tagtgacagc atgcgagggc acggagctgt cagcaggctc 240
cagagaccat ggccataaag cactgacact gacacggccc cagcaagccc ttkgggaagg 300
gcagccacca cckttgctgc tgytgctact tactgttgc gttgatttaa ggcaktacat 360
actcaggtgt catagcttgt aaaamaaagg aaaaatgaaa agtcaccatc atcccagcaa 420
aatgtaagggn tcccctgctg cccagattgg aatgt 455

```

&lt;210&gt; 87

&lt;211&gt; 675

&lt;212&gt; DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (427)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (528)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (564)

<223> n equals a,t,g, or c

<400> 87

```

ggcacgaggt cgggctcgga ggaggatcca gagacggagt ctgggccgcc tgtggagcgc 60
tgcggggtcc tcagtaagtg gacaaactac attcatgggt ggcaggatcg ttgggtagtt 120
ttgaaaaata atgctctgag ttactacaaa tctgaagatg aaacagagta tggctgcaga 180
ggatccatct gtcttagcaa ggctgtcatc acacctcacg attttkatga atgtcgattt 240
gatattagt taaatgatag tgtttggtat ctctgtgctc aggatccaga tcatagacag 300
caatggatag atgccattga acagcacaag actgaatctg grtatggatc tgaatccagc 360
ttgcgtcgac atggctcaat ggtgtccctg gtgtctggag caagtggkta ctctgaaaca 420
tccaccnctt cattcaagaa aggccacagt ttacgtgaga agttggctga aatggaaaca 480
ttagagaca tcttatgtag acaagttgac acgctacaga agtacttnga tgcctgtgct 540
gatgctgtct ctaaggatga actncaaagg gataaagtgg tagaagatga tgaagatgac 600
tttctacaa cgcgttctga tggtgacttc ttgcatagca ccaacgggaa taaagaaaag 660
ttatttccac atgtg                                     675

```

<210> 88

<211> 493

<212> DNA

<213> Homo sapiens

<400> 88

```

gtcgccctag gctgggactc tagtaggtct tccgctcagt tttggctgca gcgcccgcgt 60
agatcgcttc ggccgsgttc tacgccgggc tcaactatga gcckgtgctc ccaggcgggc 120
gaagtggcgg ccacagtgcc aggtgccggc gtcgggaacg tggggctgct gccgcccattg 180
gtgccccgtc agcgtccttc ttcccggcgc cggtgccgaa ccccttcgtg cagcagacgc 240
agatcggtct cgcgaggcgg gtccagattg tcttcttgg gattatcttg cttccaattc 300
gtgtcttatt ggttgcggtta atttattact tgcattggcca ttgctgcatt tcaacagtat 360
gctgtcttga aaagctgacc caccacaata ctggttggag gaggtaagaa atattttgtc 420
caaaatatta ggacataata ttaaattaag atatactaaa tcaatataag aagagttcat 480
catagtttag tca                                     493

```

<210> 89

<211> 416

<212> DNA

<213> Homo sapiens



&lt;400&gt; 89

```

gtgggggatgg tgtcgcatag cagccgctgc cgctttggct tgctcgggac catttggtg 60
gacccagagt ccgctgtgaa ccgcatagg gatctgtcag ggcccgggc cgggtccagc 120
ttggtggttg cggtagtgag aggcctccgc tggttgccag gcttggtcta gaggtggagc 180
acagtgaag aattcaagat gccacctawt ataaactgga aagaaataat gaaagttgac 240
ccagatgacc tgccccgtca agaagaactg gcagataatt tttgatttcc ttatccaagg 300
tggaagtaar tgagctaaaa agtgaaaagc aagaaaatgt gatacacctt ttcagaatta 360
ctcagtccac taatgaagat gaaagctcaa gaagtggagc tggctttgga agaagt 416

```

&lt;210&gt; 90

&lt;211&gt; 1467

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 90

```

ggcacgagtt catcttcac tctcagctt gctccaaatg gtgcaaaatg cattccagta 60
cgagaccgtg gcttcctggg gcagacaatt gagtttgctg aacagcggat ccctgtatta 120
aatgaatatt gtgtggtttg tgatgagcca catgtgtttc aaaatggccc tatgcttagg 180
cctaccgtat gtgaacggga gctgtgtgtg tttgcttttc aaaccctggg agtaatgaat 240
gaagctgctg atgaaatagc aactggagct cagggtggtag atctactagt atccatgtgt 300
aggtctgcgt tggaatctcc tagaaaagtt gtgattttcg agccatatcc ttctgtggta 360
gatcctaatt atcctcagat gttggccttc aacccagga aaaagaacta tgatcgagta 420
atgaaagcac tggatagcat aacttctatc agagaaatga cacaagcacc atatctggaa 480
atcaagaagc aaatggataa acaggacccc cttgctcatc ccttactgca atgggttata 540
tcaagtaata gatcacatat tgtgaaactg ccagttaaca ggcaattgaa gtttatgcat 600
actccacatc agttccttct tctcagcagt ccaccagcca aagaatccaa ttttagagct 660
gctaaaaaac tctttggaag cacttttgca tttcatggct cacacattga aaactggcac 720
tccatcctga ggaatgggtc ggttgttgct tctaatacac gattgcagct ccatggtgca 780
atgtatggaa gtggaatcta tcttagtcca atgtcaagca tatcatttgg ttactcaggg 840
atgaacaaga aacagaaggt gtcagccaag gacgagccag cttcaagcag taaaagcagc 900
aatacatcac agtcacagaa aaaaggacag caatcccaat tcctgcaaag ccgtaactta 960
aaatgcatag ccttatgtga agtgatcacc tcatctgacc tgcacaaaca tggagagata 1020
tgggttgtcc ccaatactga ccatgtctgc acacgattct ttttcgtcta tgaagacggc 1080
caagtgggag atgcaaatat taatacacia gaaggaggca ttcacaaaga gatcctccga 1140
gtaattggta atcaaaactg tactgggtta aggaccacca ttttaattac atgattcgaa 1200
agccttcctc ggggttcaaag ctggattttg aactgaagaa gattataaaa ttattttattg 1260
ttattataaa caaaattaac cctttgaata ctgatttttt ttcttagtat ttctaagtat 1320
ctcattaaat acctaaaatg gtataagatt tatcaattgt agggttatgg aatctagtaa 1380
taaaatttca acagcactta aactgaagtt tgggttgctc atacaataaa cagattgaaa 1440
aaacaaaaaa aaaaaaaaaa aaaaaaa 1467

```

&lt;210&gt; 91

&lt;211&gt; 1793

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 91

```

ccacgcgtcc gatttgtccc tattgttcta tttttaaata aatatacaat cattgttttg 60
cattgaaatg catatttgta cattttattt gataatatta ttttgggaaa ttgtaatctg 120
ttgttttggt tgtttgttaa gggagcacg aagaagaatt tacaatgtg aataaaattg 180

```

```

ttaaagatta ccaatagttt cttttctgga cttgaaatag ttacgtttct aaatatgaga 240
aaaaataactt tgcctaaaat ttcagtataa tgaccagggtc ttctctccat tttagagaag 300
cagtccaatg tggaacagat aagacggcag cgatccagtg aggtcaattc cccacagagg 360
aaagctatgc atacctaact taatggaagg taaactttct ttcaattaat gatgtcctcc 420
ttttctcaag gtgtccaaag acaggagggtg gtctgtaaaa ggttggtatga caactccatt 480
gtccagaaca attactgtga tcctgacagt aagccacctg aaaatcaaag agcctgcaac 540
actgagccct gcccacctga gtggttcatt ggggattggt tggaatgcag caagacttgt 600
gatggtggga tgcgcacaag ggcagtgtct tgcatacagga agatcggacc ttctgaggag 660
gagacgctgg actacagtgg ttgtttaaca caccggcctg tcgaaaaaga gccctgcaac 720
aaccagtcac gtccaccaca gtgggtggct ttggactggt ctgagtgtac tccaaaatgt 780
ggtccaggat tcaagcatcg gattgttctg tgcaagagca gtgaccttc taagacattc 840
ccagctgcac aatgtccaga ggaaagcaaa cctcctgtcc gcacccgctg cagtttgggc 900
cgctgccctc ctctctgctg ggtcacagga gactggggcc agtgttctgc tcagtgtggc 960
cttgacagc accttggtg atgctggaag aggaggcag tcagtgtcac ttctgggatg 1020
tgccccagca ctgagaacaa aatgcaggca tccccgggg cagcatcaga gtgcctttct 1080
agagggagcc acgcacagaa tgtaacagga tgaaacagtt tcaagtaagc cttgaattga 1140
aacctgagta ggttaaaaca attctatttc atagcacatc acaatactgc tgctactctg 1200
tagccacccc catggctaca tgatgcccta ttctaaata ataacaatag cattgtcagt 1260
ggaggctggg ccaccatggc agacctcca aaagtagtga gctacataga ctacttaggg 1320
aaccacaggg aaactggtac cctacacctg ggagcagtat ctgccactgg gataaagtcc 1380
tactaaaaaa ggaacggtaa atgtacccta atgattaaac cccgtgagat acatatgatt 1440
tccaaatagt ccatttcatt aggaactttt ttgtttgaat gaatgtcaca taggtatcct 1500
cagtaacaca gaacgaaatt acctttgtat tattgtgatt agttgttgct tattatttta 1560
tactcagtaa taatgtggtc cactgttaat ttttttgct ttgtaaatta tattctaatt 1620
tattgccatg ttctctaaca cttgtcctac attcattctc ctgcttgtaa tgaaaatgaa 1680
aaaatcattg taacacttga tggagtgaat ttccacgcca ggcacagaat ttttttgaca 1740
tagataatth agtaaaataa aaattcagct tataataaaa aaaaaaaaaa aaa 1793

```

<210> 92

<211> 538

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (53)

<223> n equals a,t,g, or c

<400> 92

```

gcccaaggat tccggcacga gganttkttg ttggttgggg gccttttggc sgntgacgga 60
gactgccag gtgtggtcac catgttctc tccgggtct tctttgccaa gagcaagtca 120
aaaaacattc tggtgagaat ggtgagcgaa gctgggacag gtttctgctt caacaccaag 180
agaaaccgac tgcgggaaaa actgactctt ttgcattatg atccagttgt gaaacaaaga 240
gtcctcttcg tggaagaa aaaaatacgc tccctttaa cgggtggattg aaaatgactt 300
tgatttataa agagaagact gagggcgggg atactgattc agaaatcctg tagcgtgtaa 360
taaaagaaga ggaaatggca tggaatcact gcctcctgtg atttgaaggc cattgtgaag 420

```

## 51

gaaaacaatg cagtgaaaga aagttcttca tattaggaca gatattcattg catcacattt 480  
atttatcttt ctgggtatth ttatagccct taataaaaaa tattaaaatw gwaaaaaa 538

<210> 93  
<211> 483  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (444)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (483)  
<223> n equals a,t,g, or c

<400> 93  
gggaatctat cataactagt ctagagatth ctcaccaagg gaaattttcc ttatctaaaa 60  
gaggaacttc aggtctcaac cctgccagtc acaccaatt aatgtccttc acaaaaataa 120  
acagcatatg ttccctttca atttgagttc agtgagctca cagcaaaatt taccttttaa 180  
ttttcttcag caaatccaag acgaatatac aaaggatgag attagataaa gatttcagtt 240  
tcccgtatgc caccgctggc cgccaatttt ccaaaaaagc ctggctcctc ttttcctggt 300  
cttccatcca agcccccaaa gatctctaac cagaawtaaa caggaagact cagtgattta 360  
caaaagacat tttagtttta caggtacaga aaattctacc cagcattaca gaaattctta 420  
gacttcttaa aattcccggg tttnccttgg tatttaacat ttggataagg gagccatggg 480  
ttn 483

<210> 94  
<211> 719  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (1)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (619)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (633)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

&lt;222&gt; (643)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (646)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 94

```

ngggaattgc tgagatgaca gtgtcccaca cagcttcaaa taaaatccat ggaaagatgt 60
tgcatttggtg gaataagtgc ttacttgaaa agcatgttct tcttttattt tcttactgtt 120
aagaattttt atttgttagga tgtttggttt aatttaattt ttttaaggga tgggggccat 180
catgtggaaa ccagaaaatg gggaaagtgt gaactatcca gacaaagatt cattttgtgt 240
ctatatttgt ttttaattgg cctcatttca aatgtattaa acagttccat acctggattg 300
ggtgtttgta atggttacca aaaaacaaac aaaaaaagaa agaaaaagga aaaaaaaaaa 360
gaaaataatt gtgacatgct tttatcacta ctttatTTTT caaataacat gtaaataattg 420
taatccattg gattttgttt tgctaacctg ttaataaaaa tatgggacca ttatcctttt 480
aacaaggcta gaatgtcatt tttttctttt tcaacatata cctgatattt tgtggccgca 540
cattttgggt gcattattat aattckgttg actgtaatga catagaatta cacattttkt 600
gktggttaat tatacagang acattttttt canagcttga ganaanaaaa taaatagcaa 660
aatgataacc tattgactcc agtaatcagt gtttcccaat acttcataag aaatagga 719

```

&lt;210&gt; 95

&lt;211&gt; 613

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 95

```

tattcagcta ctatacagaa aaaggatgaa caaattaatt tatttctaatt tgagccagtt 60
agacataatg catataacgt gatatttgggt tcatgaaaga gttgttttca tgtggttatt 120
gtagggagta tatataattg tggaaggggt atgggaagag ttgtgtatag ttagttgtta 180
tctctacaag tttgaaagtt ttcccatcaa acattatcaa tataccaatg ttttaaaaaat 240
tgagtgaggg ttattatttg tatttgatga aaaaaatcc aaataaagcc cacctagaaa 300
tagatatttt attatatatg tgctatagat atacctatat agtacaaata gacatgtgtg 360
atgcatatat acaatgttat atatgtgtat atgtctgtat acacactgag tctgtaatat 420
gtatacacta aatttggtgky amgctaacak cttcaggggc tgcactgtga actcccckgg 480
agataagtaa gtccacttta gaataaagag ttcttttgag acttcagtta ctaacgtgct 540
ttaagaggta tctactttat aactgaattc tatgtcgttc atacgtagag ttacagtaag 600
ggtctagtat gtc 613

```

&lt;210&gt; 96

&lt;211&gt; 816

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 96

```

gggaaaggag ggtcaggcga gtccacgagg aggttcgagt gaagatcaaa gacttgaatg 60
aacacattgt ttgctgccta tgcgccggct acttcgtgga tgccaccacc atcacagagt 120
gtcttcatac tttctgcaag agttgtattg tgaagtacct ccaaactagc aagtactgcc 180
ccatgtgcaa cattaagatc cacgagacac agccactgct caacctcaaa ctggaccggg 240
tcatgcagga catcgtgtat aagctgggtc ctggcttgca agacagtga gagaaacgga 300

```

## 53

```

ttcgggaatt ctaccagtcc cgaggtttgg accgggtcac ccagcccact ggggaagagc 360
cagcactgag caacctcggc ctcccccttca gcagctttga ccactctaaa gcccactact 420
atcgctatga tgagcagttg aacctgtgcc tggagcggct gagttctggc aaagacaaga 480
ataaaagcgt cctgcagaac aagtatgtcc gatgttctgt tagagctgag gtacgccatc 540
tccggaggggt cctgtgtcac cgcttgatgc taaaccctca gcatgtgcag ctccctttttg 600
acaatgaagt tctccctgat cacatgacaa tgaagcagat atggctctcc cgctgggttcg 660
gcaagccatc ccctttgctt ttacaataca gtgtgaaaga gaagaggagg ttagccaagc 720
ccccaccca tcccactccc cttccctcmc cagatattta tgtgaaatga actgcagctt 780
tattttttga aataaaaact tttaaaaagc aaaaaa 816

```

```

<210> 97
<211> 577
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (38)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (575)
<223> n equals a,t,g, or c

```

```

<400> 97
cagaagccaa aaaggtctta aaattggaaa tagatgtntt tattgtactt cagccaacag 60
caagccaggg gaaggaacat acataaatat gacagggtcat atatgaaatt tggctctcct 120
cctatcaaag tagcctagga gcttggagga agcctaatta actaaaacag gaaaaaagca 180
tactcatctg atgtaaaaac tcatcagctg taaattacca acattaaacc agaagtcatt 240
accagttaaa atgtgtgggt ttcattcttat tcttaaatag gagaggtggr cagtagtgta 300
agtaacattg ctttaaagrc ataaagcttk tcctggtaaa catgggtctaa atgagaaatg 360
cctccatctt ttcaggtaga accagatttc aggcatagct cagctacatc tgtattttgaa 420
atacaataaa aatattttctt atgtctctgt attctctttt aaaaagaact gctgactggc 480
tcctgtctct tcagtaacac tgattttttt ttaaagaagt gatatgttgg actctgttgg 540
agaagaatga gcactagtat tcagccacaa gtgcnat 577

```

```

<210> 98
<211> 484
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (456)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (476)
<223> n equals a,t,g, or c

```

```

<400> 98
cttgagctcc acttgctgaa gaagttgtgt catttctctg gaagaatttc caaaattctg 60
gatttttttt tttttttgga gtatttcacg agctgaaaag tgattctyac tttgagtttt 120
cttcctatat ttgtatagtg agttcctttt tccttcctct ttatccctcc tgttttactt 180
tatacctctc tattccttgc tcaaattatt gcaaaagcct ctatagaaag tcctctgtga 240
tctgactcct gcagactcct ccagattttt ctgccccagg cctttactga gctcaggact 300
ccagctaaat caaratackc atgttctcac ccagagtgaac aaaatcctgc agatagggttt 360
aagacctagt gggmtcagag cagtagctac tgggaagtta aaaggaaggg gttagaaaat 420
gaatgggaca aaggcacact tctgatggag atgaancact tgaaagtga tggtgncttt 480
ggag                                         484

```

```

<210> 99
<211> 441
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (328)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (331)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (332)
<223> n equals a,t,g, or c

```

```

<400> 99
aattcggcac agggaaaaag gctgagcgga gagccgtgct gcctggcccc tcctcaccgc 60
ccttccccgc acctcttggc tgtaccggga gcctctgaag caccggaaat gaagggtttt 120
ccaggcctgg ctcttcaact catccttcag gggaactttg aagccatgga gacatctggc 180
tttgagacca tggcgattcc cctgccactc tccttgctgg gataaagcca gggcggtggc 240
tcctgggatg atgttccttg ctgctgagtg tgcacacaac ctgagctcat cctgtgtacg 300
tcagctacac atgctcgcat ctaatttncc nnaacaacct agccagtact attgcttctc 360
ctcctcttac agatggggag atgatgacat atagagggtta acttatcaga gaccacacaa 420
aaaaaaaaaa aaaaaactcg a                                         441

```

```

<210> 100
<211> 524
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (510)
<223> n equals a,t,g, or c

```

&lt;400&gt; 100

```

aaagaaaacg aaaaagaaag cccaaggcaa agaaggggga aggaaaacaa acttcgccac 60
tctytcttct ccttcctaac cctttgtyta gagcaccaca ccgctcacia actctttcca 120
aatgctcagt tggctcccaa agttggagcc tggcatgggc akggagccca caaaactcta 180
accaaactgg akgtctggcat gggagaartg cttctgggtc actcttccta ccctctccct 240
cctaaccctc tccttgccctg acagggagcc cctgtggcct ggactctagg ggatgccgcc 300
accagaaacc cctctgcaa tccctamctt gcaccctggg aaytgagta acttattctc 360
aaaggcttta aacacagaga tcctctcagc ggccgtgggc ctgccccttg tcctarccct 420
tgccacgttg agggccaac ctccaaggga caggcactgc cccaccaacg gcaaatccaa 480
aattctttca aaaaaaaaaa actgaaaacn caacccaaaa aagc 524

```

&lt;210&gt; 101

&lt;211&gt; 614

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (355)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 101

```

ggagaagggt tctctctcat ctcttctcc agcaaccttg gccatggacc agccggctgg 60
cctgcagggt gactacgtct tccgggggtg ggagcatgcc gtgcgggtga tggtttctgg 120
gcagggtgtg gagctggarg tggaggaccg gatgacggct gaccagtggc ggggcgagtt 180
cgatgtggc ttcatgaag atttgactca caagacaggg aacttcaaac agttcaacat 240
cttctgtcat atgtctggagt cagccctcac tcagagtagt gagtcaagta ccctggacct 300
gctgacctac acagacctgg agtccctgcg gaaccgaaga tggggggccg ccagntcctt 360
ggcccccagg tcggcccagc tcaactccaa gcgtacctg atctctatct actccgtgga 420
gtttgacagg attcaactacc cgctgccct cccgtaccag ggcaagccag accccgtggg 480
tctgcagggc atcatccggt cactgaagga ggaactgggc cgcctgcca gtccctgccc 540
tggccccgtc cctcctgctg cccctggggg tctcaggtgt gtgaggccct gacctgccc 600
tctccccagg cagt 614

```

&lt;210&gt; 102

&lt;211&gt; 544

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (5)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

<221> misc feature  
 <222> (6)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (10)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (12)  
 <223> n equals a,t,g, or c

<400> 102  
 cnaanntgan anaaccctca cttaaagggaa caaaagctgg agctccaccg cgggtggcggc 60  
 cgctctagaa ctagtggatc ccccgggctg caggaattcg gcacgagaga aaaattatatt 120  
 gtatataact ttaaaaggag tagaagggtt ttttgcagag ttattacgtt tgaagtatac 180  
 tttatttctt gaaaaaatta cagatttttt gtaaataatg atgtaattca actctcaaaa 240  
 tatttctctac tgtttcttta ttccagttgt attcacatgt gaaagcatgt gatcagttat 300  
 tgctgcatta aaacatgag tcttttttat taggtggcca ttatttatga tcttttctat 360  
 gaaagagtaa ggacattaaa atgtaagatg catgatgaaa aattaagtga agaggctctt 420  
 tatggttaat ttatattgaa taatgcatta ggtagggtgt cagagtaata ttttgcgttg 480  
 tgagaacatt ttttaatttta tttaaaatta aatgaaaata aattagtata ttattgtact 540  
 aatt 544

<210> 103  
 <211> 1887  
 <212> DNA  
 <213> Homo sapiens

<400> 103  
 ggcacgagag gaaggaactg gtttcgggga gccctgggag gggcggtgt ggggaggaag 60  
 gtgacgtgca ggggaccaga ggctctgcac tgctcctagg acagctcatc tgtaatcaga 120  
 aaaaaataa ataaaataca gaacgctgac tcctccgtga gacagatcgg ggaccttagc 180  
 actttaatcc ctcccttctg agcgctcggg gtgcactttt agactatagc tgtttcattg 240  
 acgtgtcact ctccatccag tgtccttgat gtggctttta gagacttagc agaaaattcg 300  
 acacaagcag gaacttgatt ttttaagaaa aaatattaca ttttgaggac attttgacaa 360  
 gtaggggaag agagggcttc tgttggtttg ttttgtttg ttaactaaac ctgaagtatt 420  
 aattccacaa agacactgtc cctcaggacc actcaggtag agctctgcca gggacagagt 480  
 ctgctagtgg gaggtctcag gtggggcggt gtgttctgtg ccatgaggca gcgacaggtc 540  
 cagatggatg tcgtcaccac cttcctcagc tctcatcacc tggctgtacg ccaggccac 600  
 ctcttccag caagggacgc caaagaactg cagtttttat tctgagtctt aatttaactt 660  
 ttcacatctt tttcctatatt tgragaattt tttgtaatta aaagcaatta ttttaaaatg 720  
 tgcaagccag tatctcaciaa ggcattggatt tctgtggaat ttatttttat tcaaataacc 780  
 atatttatct ccaggctgtg gaatcgccac tttctttgtg aagacagtgt ctctccttgt 840  
 aatctcacac aggtacactg aggaggggac ggctccgtct tcacattgtg cacagatctg 900  
 aggatgggat tagcgastgt gggagactgc acatccggac ctgcccattg ctcaaaacaa 960  
 acacatgtac agtggctctt tttccttctc aaacacttta cccagaagc aggtgggtctg 1020  
 cccaggcat aaagaaggaa aattggccat ctttccacc tctaaattct gtaaaattat 1080  
 agacttgctc aaaagattcc tttttatcat cccacgctg tgtaagtga aagggcattg 1140



```

tggtccgtgt gtgtccagtt tacagcgtct ctgcccccta gcgtgttttg tgacaatctc 1200
cctgggtgag gagtgggtgc acccagcccc gaggccagtg gttgctcggg gccttccgtg 1260
tgagttctag tgttcacttg atgccgggga atagaattag agaaaactct gacctgccgg 1320
gttccagggg ctgktggagg tggatggcag gtccgactcg accatgactt agttgtaagg 1380
gtgtgtcggc ttttycagtc tcatgtgaaa atcctcctgt ctctggcagc actgtctgca 1440
ctttcttggt tactgtttga agggacgagt accaagccac aagaacactt cttttggcca 1500
cagcataagc tgatggtatg taaggaaccg atgggccatt aaacatgaac tgaacggtta 1560
aaagcacagt ctatggaacg ctaatggagt cagcccctaa agctgtttgc ttttccaggc 1620
tttggtttac atgcttttaa tttgatttta gaatctggac actttctatg aatgtaattc 1680
ggctgagaaa catgttgctg agatgcaatc ctgagtggtc tctgtatgta aatctgtgta 1740
tacaccacac gttacaactg catgagcttc ctctcgaca agaccagctg gaactgagca 1800
tgagacgctg tcaaatacag acaaaggatt tgagatgttc tcaataaaaa gaaaatgttt 1860
cactaaaaaa aaaaaaaaaa aactcga 1887

```

<210> 104

<211> 253

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (226)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (228)

<223> n equals a,t,g, or c

<400> 104

```

agattttgaa cttaaattat attctatatg tgtatcttcc taggcaaaag ctgtaatttc 60
cagagagacc attaggaaca ggtagtatct attttyctcc attatttatt tctagaaact 120
cataaaatgg attgtatttt tctataagaa caaaatatta attaaggatg agatgactga 180
ccaagggstt aatcaaataa aatgactaac agcatctatc cataangnca cacaagcctt 240
atgttctcat ctt 253

```

<210> 105

<211> 705

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (671)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (688)

<223> n equals a,t,g, or c

58

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (698)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 105

```

cccaatctct agctagtgtt gcttatcaaa taaatgcatt ggccaacaat gtactccagt 60
tgctggatat ccaagcctct cagcttcgga gaatggagtc ttccatcaat catatctcac 120
agactgtgga tattcataag gagaaagtgg cacgaagaga gattggtatt ttgacaacaa 180
ataagaatac atcaagaact cacaaaataa tagcacctgc gaatatggag cgccctgtaa 240
gtatatctcg aaacctatcg attacacagt tctggatgat gtgggccatg gtgtcaagtg 300
gctaaaagcc aagcatggaa ataaccagcc tgcaagaact ggcacactgt cgagaacaaa 360
tcctcctact cagaaaccgc caagtcctcc catgtcaggc cggggaacac tgggacggaa 420
tactccttat aaaaccctgg aacctgttaa accccaaca gttcctaata actatatgac 480
cagtcctgct aggcttggaa gtcagcatag tccaggcagg acagcatctt taaatcagag 540
accaaggaca cacagtggaa gtagtggagg aagtgggaag ttcgaggaaa acagtggtag 600
cagtagtwtt ggcwttcccw ttgctgtgcc tacaccttcg gcaccayta ttttgaaacc 660
atttgttgat ngttccaatt tccaccgnca ccactttnc ccaaa 705

```

&lt;210&gt; 106

&lt;211&gt; 920

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (920)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 106

```

gctagaagtg gattggagcc tctttgatgg atttgcagat gggttaggag tggctgaagc 60
catttcctat gtggaccctc agttcctcac ctacatggca cttgaagaac gcctggccca 120
ggcaatggaa actgcccttg cgcacttgga gtctctcgca gtggatgtag aggtggccaa 180
tccaccagca agcaaggaga gcattgacgc tcttcccag atcctggtca ctgaagatca 240
tggcgcagtt ggtcaggaga tgtgtgccc catctgctgt agcgaatatg tgaaggggga 300
ggtggcaact gagctgccgt gccaccacta tttccacaag ccgtgtgtgt ccatctggct 360
tcagaagtca ggcacctgcc ccgtgtgccg ctgcatgttc cctccccac tctaaagacc 420
aaggccgttt actcctggtc tgattatttt ccccatctga aatccacaat actgcaggag 480
ccctcttgaa attaacaatg gaaataaaac caatcagtca gttagcctaa acctattgat 540
tcctcgtgat tttttccaat gtgaaaacag ttgtgtatga ttgcattaaa aatcatatca 600
tcttttagag gttagaaaag ggaaaactaa actttctaaa tgctacttga gattgcagta 660
agaagatacg ttttctaacc tgaaagttaa atcgcatttg ttttcttcag tagaatggga 720
atgtgttgct gttacttgta atgtcaagtt tatctgttaa atatgtccaa aaggcaaaat 780
catttttgtt gcatgttatg ggtcgatgtt cctgtaattg cagtgccgta aaagcttatt 840
aaagttgttc ttttggtttt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 900
accccggggg ggggcccgggn 920

```

&lt;210&gt; 107

&lt;211&gt; 466

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (7)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 107

```

nggccccntac tcgggcegtc ccagarggag ccacctctca gtgcctcamc tccccctgcc 60
tcccagcctc cgcagatgag gttcctgccc cttcctctc gtaaccaaaa ccctcactgc 120
tcccaggacg gtcttattta taaaccagat acatgttctt agtctggtcc cagaccaagg 180
agctgggtcag acggcccttt ctaatcctac atgttgagct tatgtaaaaa atgttgtttc 240
ctcctgtttt tgggttccttt cttaccacaca aaccattact acttgaaaact taaaaaactc 300
gccaaagtgt aaggctaaag agaagcagtt tgacggacct tgtgatttgt actgtttgct 360
gcgagctat ttaaagattt tggaataaat atacaaaact acggttgtga aataaaaact 420
taaattgtat attttgaaaa ataaaacact gaaaagaaac aaaaaa 466

```

&lt;210&gt; 108

&lt;211&gt; 323

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (111)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (113)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 108

```

actatTTTTt tattttataa atctttgtag aaataagcaa tgaaatacta ctttcatctt 60
ttgaaatggg atttttcaag gcagtgtcct ttggcatta aggtaggggg ncngttaata 120
ttctctctgc cttgtttcca cgtggaatca atattaaagt catggacatt ttaaaatctc 180
aatttaattt cttcttattt actatgcagt atagccgtgg aacaagtaat gtagatttag 240
ttttctcacc ttcaaagccc ctgatcacc tacctcacag ggttggtgtg gggrrwaata 300
aaactttatg gragcaaaaa aaa 323

```

&lt;210&gt; 109

&lt;211&gt; 448

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 109

```

ttttttcaca gcatattaga aatgtttatt aagaataatg gcatgaactg cttttaacaa 60

```

## 60

```

tttagaaaaag acccattccc cccgcccsc cccgccccca gatccagggc acttcctcta 120
agtaaaayaca aatattttctg tagtgaactg tatgcatatt cccactgagt aaagggtata 180
agaagcctca ggtcaggtct taccaccaa cttgaaaaca cttggaatgc agctgggcag 240
ggacttgagc aggtttttgtc ttgataagca ggtaagaatg gcagaacact ggcttattgt 300
caaccaatgt ttttttatat acctgaagta ttcacagcaa cttattttta gaagcttttt 360
aaaagttcta cacctccacc cccacaactc cccaatccag aacatggaac aagggtgtgg 420
agccgtttga tggacttggg tctgttcg 448

```

<210> 110

<211> 849

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (32)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (33)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (39)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (841)

<223> n equals a,t,g, or c

<400> 110

```

ggtgactccg tctcaaaaaa aaaaaagaag gnngtaccna cagtatacgt gtgggcactt 60
gtgcttgagc ctgtattaaa ggaatcaggc caggcacagt ggctcacgcc tgtaatctca 120
gcacattggg aggctgaggt gggcggatca cctgagggtca ggagttcaag accagcctgg 180
ccaacatggt gaaaccccat ctctactaaa aatacaaaaa ttagctaggc ggggtagtgc 240
atgcctgtaa tcccagctac tcaggaggct gaggcggag aatcgcttga gcccgagagg 300
tggagactgc agtaagccaa gatcatgcca ctgcactcca gcctgggcaa cacagggaga 360
ctccatctca aaaaaaaaaa aaaaaaaaaa aagacattca acttgaggct cctgttagtt 420
aagctatctt ctttcaactg aagcagggtt gagaggccta ggccagaatt taaattcctt 480
ttatgaatag atttcccttt ctctctgacc ccaaggctcag aggagactat atattccatg 540
gctgcctcta agactaggaa taggaatatc tgaaaacagc atttctaagg gtggtaacca 600
caggctcgatt ttaatacagag tcctttttct thtagaggta agtaaaatct tcctgacaag 660
gtagtccctt tttcacggca cagacaatgg gctttctgtt tatgaggggt gagaagtgat 720
gtttgttact atgttctcca gcaagtaaac attcctctgc tcacctcca acaagactaa 780
cagtcttttt agaagtaa atattcaaga caaacgagaa aatcctggct acccaagtcg 840
ngtatatac 849

```

<210> 111

<211> 876  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (871)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (876)  
<223> n equals a,t,g, or c

<400> 111  
aaaaaaaaatt tacaaaaaaaa caamcacama aaaawtatct ttttttaggcc agagttttct 60  
acaggtatta atgaatatct ttcttaatcc ttataagttt tatgtgttta atatttctta 120  
ataccggttag cattaattta tacttttgta gcaacacaat atttttataa acagccggtg 180  
cttggctcaa gtcttcacga ggggttttagg cagggccatc ttggggaccc tgtgtaccat 240  
gtactgtatt taaaaaaaaaaa aaaagttacc tattgtcaca cttgctgtgt taattaacaa 300  
aagatgttgt gtgcggtctc ctgtatcggt gtggatccaa cagctctcca gggagtcaca 360  
ttgcatgggg gttgagttga cggttcttgt gatatgtaaa ccccgagac caaacttgag 420  
ggtttattta gggttttctg tttgtccttt gggtttttgt ttcactttgt tttggtgccg 480  
tttctccatt tacagccaaa tcagtttcat gatgttcaaa acatttactg atgtcaaatg 540  
gaggaaagga acagaaaaaa agatttttac aaagtaataa aattttaaac tgagctgttt 600  
aatgttgctg tttttacctg tctgttcttg tccaaaagtg gaacattccc agggagaaga 660  
ggaaggttcc actcggttct ttaagtcgcc aaaagcccca gcccggtt cagtacctcc 720  
cctgcccccc gaattcttgc agcactattt cccagttggg tgatgccaag gcaaaaagat 780  
aacttttaac agttagagag gatcagttgc ttaaagtatt tcatgtcagt gttgtattta 840  
tggttttaca ataaaaacaac ctttaggaaa naaaan 876

<210> 112  
<211> 382  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (100)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (105)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (341)  
<223> n equals a,t,g, or c

&lt;400&gt; 112

```

gcctcccagg ttcattgccat tctcctgcct cagcctcccg agtagctggg actacaggca 60
cctgccacca caccgggcta cttttttata ttttttagtan agacngggtt catcatgtta 120
gccaggatgg tcttgatctc ctgacctcat gatccgcca ccttggcctc ccaaagtgt 180
gggattatag gcatgagcca ccgtgcccg ctattttcag ttcttatgct gtgaaccact 240
ttgccttgta gctttttcta tctttccaaa atcctcactc tgttcattgt ttgtctcagg 300
ggaaaatctt cccccaccga gcttgtaaaa aaactttaat nattgggtgg aggataattt 360
aggatgggta tttattggag gt 382

```

&lt;210&gt; 113

&lt;211&gt; 1070

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (334)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (882)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (961)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1018)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1070)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 113

```

ggcagcaggg ccgactggac tttgtgagct ccagctgcta cagttgactg agttcaggct 60
ccatgtagct gggatatact acatgggttac cctcaccctc tatggagctt ccaaagaga 120
ccctccctca aagcacagcc ccttctctga gtgcaaataa tggccatcag aggtcagtca 180
caggtgttag gcaggcatct atgaagctgg ggatgatagc actgacttca gtgcttggac 240
gagaaccagg agagagtgtg tagaaaaagc acagccagcc tcccataaaa ggacagaytc 300
ctgtgacaac cttgtcactc tgttctctcc tgantactct ggggaggtgg aggccagtgg 360
gcagttctaa agctcagcag gtttggagcc attgggtgtg gactcctctc ccagtgttcc 420
tctgggtgtt tcacagatgt tattgaaatg cacactggga accctgcaca ggtaaaacta 480
aggytttatt ggcgtgattg ccaaaggtea cacagggtgg tttggyagag ctgggattag 540
aagcccagcc tgytctytc cagtagtaat ggagtcctgg gaggtttact aggcttttagc 600
ctcaatctgt ggcggcaggg tccacagccc tggggagtga cacagtcatg gtcccatga 660

```

## 63

```

ttggccagga cctgktgtga gagacacagg agacaagacc ctgctcttcc aggccagaag 720
ggaggggagc cccagagctg ggcagtggca tgccccacag cctggccacc tgcttcgggt 780
acgcaccatg cagcagctgc acctggctgc ctcgggaaaa ctctgacctc tctgggaagt 840
ggagccagtg gctctgtggg cgtcctttcc tgcagcctgg anagcaaagc ggctttccct 900
gggactgtgt ggctcctgtc ccaactggcc tccccattcc acattcccat tgctggacca 960
ncaccaggac tgggcacagg gcttcctttt gctgattcat tcccccccta actcatcnaa 1020
attgaacccc atctgattcc cacatgctgg ccctgaaacg gtacaaaggn 1070

```

<210> 114  
 <211> 371  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (360)  
 <223> n equals a,t,g, or c

```

<400> 114
gtctattaga aaacggctct aagagattct ttggtgtttg gcactttaag gtcacgtttg 60
ggcagaagtt tagcattaat agttgttctg aaacgtgttt tatcagggtt agagcccatg 120
ttgagtcttc ttttcattgg ttttcataat attttaaaac tatttggtta gcgatgggtt 180
tgttcgttta agtaaagggt aatcttgatg atatacataa taatctttct aaaattgtat 240
gctgaccata cttgctgtca gaataatgct aggcataatgc tttttgctaa atatgtatgt 300
acagartatt tggaagttaa gaattgatta gactagttaa ttttaaggag atttgaagtn 360
gggtgggggg g 371

```

<210> 115  
 <211> 581  
 <212> DNA  
 <213> Homo sapiens

```

<400> 115
tttttttttt tttttttttt ttttyttgagt attccagcat tattttatttg atcagagtaa 60
aatacacttc ccatcactac aaactgagca caactacagt tgtctacaca ttcatttttt 120
tgacgtgcca acatttttgc ttctacatga aacatttggg ttaaacaata tcttaagaat 180
tctctatttt gtttcccatc ttccctcctg ttctctccca tcttccaaag atgttttata 240
ttaactgcta tgagatttat ttgccggcca cgtataacgg aggacagcag ggaacaacac 300
aagatttacc atgcctaggg gatgaatggc aaacccaact ttggctaata tcattgagaa 360
caacttgga agcgtgasag gaggatatct catggaagtg ggcagtgaac ctacatttcc 420
atztatcaga agcaaactg ggaagggttac atacatgatg aagtattgga agttaagac 480
ttaagacaca aaatactaa tttaaaagra cmtgcmact grgtatcaac ttgctatgta 540
gkgtagatgt aaatgaccca aatattcacc tctagcatcc g 581

```

<210> 116  
 <211> 705  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature

&lt;222&gt; (681)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 116

```
atcggacggg cttaacatga aagcctatag gtcattcttg ctctgggatac tacaggcagg 60
gtaggcacag gtgcagccta agaaggggaac ctgcttcctc tcccttccaa agacagtgac 120
agctgactga gggcaaagag caggcaccac tcagaacgtg gtgagtacag ctcagctcag 180
cactcagtca gtggtaactt gtgcccagcc ctgtgctagg cgctgacatt aacaggagca 240
accagggccc aattcctggc cttggagctc aaatctttcc tttgattttt gtccttgatc 300
atcaaggccc cagtggcaac catgtggtaa gtggccaacc aagccctacc cagggtcacc 360
caacacactc tgccttgagc ctctcctcag ggtctattcc ttgctgggat tatgtggccg 420
tagcatgtta cagttcaaac atgtctccac taccctgtta agagcagcct gggaacgtac 480
aggccatcaa gactatttat taaatacaa aaaaagggga aaacacacac acggaaaaaa 540
aattgtaagc actttttttg taaaaccaat gtctgttttg ttacatacct ttcattgtcg 600
gctttgtaaa tgtcttattt gtgtaataaa gttaatgcaa gtaaaaaaaa aaaaaaagat 660
gggcgaagtt atcccttggt nggtaattag tttgctgctg gttta 705
```

&lt;210&gt; 117

&lt;211&gt; 1196

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 117

```
gcgaccgect cgcgtaccgc gcttgccggtc cagagcgag cagccccggg gtggcgatgg 60
ggtcgcgcgc aggcagcgga ggttctgcgg ggcactggag gttggcagtg ggccggagaa 120
agaggaaggc aggcgcggct gggcctcggc ctctggcgcc gcggtaccct ttgtctcggc 180
agcctgacgg ccccgccggg ctctccggag aggggaacgg gcggcgaggg tggcggttcc 240
tgggcgcgct gtgctgcggg gccgagaggc gctcgggtcg cggcgggatc ggccggacca 300
gacagggtta atggaagagc ctggccagtc ccgcgcgggg ccccgcgagc gacagccttg 360
gccgcgggga ctggagtcct gagggggaga agcctgcctg tctgaaggct cgggacttct 420
gccccaaaga cttcgccgcc gagaactgcg ggtgcactgc ctcagggaag aagttgagaa 480
ttttgccagg tcatctctgc cagggcacag ttcactactg tgtgtttagt gtgtttcgg 540
gaagctctcc aagtgtgttg aatcagcggt cctagcctca aggggtgcatc gtgaaaactg 600
aaaccaaagg aatgatacag gcctgctttg tgtgtgtctt ccactttta gcttgttttc 660
agtacaaata ctcttgcttt aaacctgatt ggactgtggc gagcgacat ctgttcaaag 720
gaggggcccga gaccacagta cttctgaagg gggcttgata atgtggaaac attttaagtt 780
ttctctccgg actgttttgc tctctcaatt caggcaagtt actgaagtac gttttttatc 840
tagaaaaagg tttgatgtag tctgtaaagt gtccttgtaa agtacattgc catctcagaa 900
ttaaaagatc cactctcatt tattatgcag aagttagtgg tcattctttc ctgtagatag 960
tttatctcat gtaaagacct acccagcttg gtttaaat ttttctcact gacgtataac 1020
catcagcttt gatacttcca ttttcaggct cagactttga atttaaggaa actaaagatg 1080
actttatttt cttttctctt ggttttttt tccaaaaaac aaaaaataaa tccattacat 1140
gttaacataa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaacggacgc gtgggc 1196
```

&lt;210&gt; 118

&lt;211&gt; 975

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature



<222> (794)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (845)

<223> n equals a,t,g, or c

<400> 118

```

tgtccctttt tattctagag gcttttcctt taattcagag attagtggag ataataacgt 60
cagtcaaggc taatgtggta catggaactt gctaattggag gttggacatt ctgtttcagt 120
cttacatgga tattgtttca ttggtgttga ggaagaaaaa aattagatac taccatgcat 180
tgggacagca taattctaatt attacattga atatggcctt ttaaaaaataa gtattaaaaa 240
gccaatcggt ttctccattt atctatcttt tttgtttgtt ttaatttgg ttgattgata 300
tgcacccagg ccgtcttatt ttacttgtt aaatgtctgt ctaggaagaa ctgtgattgg 360
aaaggaatta attattatac aaataaatct ggtaggatat gagtggagta agtttgcttg 420
aaacagaagt atatttttcta ctttgaatca cctcaccaga gtcactctgc aagaattatg 480
tataacaatt tatctttatt gcctacatac aacatacttt ttctgaatta agataacttc 540
tatttgtgag ttgaacttca ttatctgcca ttttgtggaa tcaaccttac attytttggg 600
ggractagag ctgattgtca ccacaagggt atatgacaac tctgttctar grcttatacc 660
yattatatag ggktatacct tttttcttat gcctcagctc tgtacctgac aatttatgat 720
tcagtggagc caagctagaa ggaacaaagg tcatctaaca ctgtgatggg gatgaattcc 780
tgagttttac ctgnacaatg aggtggtgcc ccggaattca caacagagta gtgatagagc 840
ataangatgg ctgctccaga tgactcttgg gtttaagtgt acttgtgatt gaacaagatt 900
tttatctatg aagcttgatt ctacaaccaa aataatagaa atgggggggg ggggaatcat 960
gtctgcttat gcttt 975

```

<210> 119

<211> 331

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (331)

<223> n equals a,t,g, or c

<400> 119

```

catatattag tgtgctttga agttgactga aagatatact ggatatcata attatataat 60
ttctaaatag atttctttta atccatgcta tgttttcttt ttcagtcagg tcctacagaa 120
tgactattgc acttgggtcta ttgttttaat agtaaatctt gttattaatc tcctatgtgt 180
taaacgtggg taattgtatt atgttaatac atacttaggg agggaaagca ggtggatgta 240
aatcagtgat tcccaacttc agcagatggw tagcmgtggg aggggtatcct tggagctttt 300
tgtaaatatt tccaaaaaag gggggggggg n 331

```

<210> 120

<211> 233

<212> DNA

<213> Homo sapiens

<400> 120

66

```

tcgacccacg cgtccgcccc cgcggtccgca aaactgagag ggataggaaa gaaaaactta 60
tccaggaagg aaaattggat cgaacatttc acctctcata ttaagtctgg caatgatgac 120
tatatgtatt cctgcctaaa taaatcatct attaatcatt aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aagggggggg ggg 233

```

```

<210> 121
<211> 2043
<212> DNA
<213> Homo sapiens

```

```

<400> 121
ggcacgagca gccctcggcc ccattccctac gaccagccct tccgtcctgc ccaccccggc 60
agcgactggt gttcctgaag acacataaat cggggagcag ctctgtgctg agcctgcttc 120
accgctatgg ggaccagcac gggctgcgct tcgccctccc tgcccgtac cagtttggtt 180
acccaaagct cttccaggcc tctagggtaa aaggctaccg cccacagggt ggaggcacc 240
agctccccct ccacatcctc tgtcaccaca tgaggttcaa cctgaaagag gtacttcagg 300
tcatgccttc tgacagcttc tttttttcca ttgtccgaga cccagcggct ctggctcgct 360
ctgccttctc ctactataaa tccacctcat cagccttcct caagtcacca tctttggctg 420
ccttcctggc caatcctcga ggcttctaca ggcctggggc ccgtggggac cactacgctc 480
gcaacttact atggtttgac tttggcctgc cctttcccc agagaagagg gccaagagag 540
ggaatattca tccccccaga gaccccaacc cccacagct gcaggtcttg ccttctggtg 600
ctggccctcg agcccaaacc ctcaatccca atgccctcat ccatcctgtt tccactgtta 660
ctgatcatcg cagccagata tcaagccctg cctctttcga tttgggtct tcatccttca 720
tccagtgggg tctggcatgg ctggactctg tctttgacct ggtcatggtg gctgagtact 780
tcgatgagtc attggttctg ctggcagatg ccctgtgctg gggctctagt gacgtggtgg 840
gcttcatgca caatgcccag gctggacata agcagggcct cagcactgtc agcaacagt 900
gactgactgc ggaggaccgg cagctgactg cacgggcccc agcctggaac aacctggact 960
gggctctcta tgtccacttc aaccgcagtc tctgggcacg gatagagaaa tacggccagg 1020
gccggctgca gacagctgtg gccgagctcc gggctcgccg agaggcccta gcgaaacatt 1080
gtctggtagg gggtgaggct tctgaccca aatacatcac tgatcgccgg ttccgcccct 1140
tccagtttgg gtcagctaag gttttgggct atatacttcg gagtggattg agcccccaag 1200
accaagagga atgtgagcgc ctagtctacc ctgagctcca gtacaaggac aagctggatg 1260
ccaagcagtt cccccctacc gtctcactgc ccctcaagac ttcaaggcca ctctccccat 1320
aaacatcaga ctacagattt aggtggaaga gcagccatgt ttgaagggca catgtgatga 1380
gtggggggca gcaagatgcc atttctgcat ctcccagaag ggatgagtct ttgtcccaa 1440
tgcaagcccc ctcttcgctg ggctcccagc agtgcttccc tcctccacc tccactcatt 1500
ttgttctttc cccccaactt tttttttttt ttgaaacgga gtcttgctct gtcccccagg 1560
ctggagtgca gtggcatgat ctcggtcac tgcaacctct gcctcccagg ttcaagcgat 1620
tctcctgcct cagcctccag agtagctagg attacagata cgtgccacca taccgggcta 1680
atTTTTatat ttttagagac agggattcaa catgttggtt aggtggtct tgaactcctc 1740
acctcaggtg atccacatga ctctgcctcc caaagtgtct ccattacagg cgtgagccac 1800
taggcctgac ctcccccttc ctttctctgc cccaaggcag atccacatca ccgaagctcc 1860
ctagaggggc aaaagatgga gtgagccaca ggaagtttgg ggcgtggtga gttggaatga 1920
tacgtccatt tctctatgaa atatttgcta ctgactgtt catttctctc tgacatgttt 1980
gttgaatgaa taaataattt gaaacttcaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2040
aaa 2043

```

```

<210> 122
<211> 2877
<212> DNA
<213> Homo sapiens

```

&lt;400&gt; 122

```

tcgacccacg cgctccgggat gagggccggc ctctcatttc tcctagccct tctgtttcttc 60
cttggccaag ctgcagggga tttgggggat gtgggacctc caattcccag ccccggtctc 120
agctctttcc caggtgttga ctccagctcc agcttcagct ccagctccag gtcgggctcc 180
agctccagcc gcagcttagg cagcggaggt tctgtgtccc agttgttttc caatttcacc 240
ggctccgtgg atgaccgtgg gacctgccag tgctctgttt ccctgccaga caccaccttt 300
cccgtggaca gagtggaacg cttggaattc acagctcatg ttctttctca gaagtttgag 360
aaagaacttt ccaaagtgag ggaatatgtc caattaatta gtgtgtatga aaagaaactg 420
ttaaacctaa ctgtccgaat tgacatcatg gagaaggata ccatttctta cactgaactg 480
gacttcgagc tgatcaaggt agaagtgaag gagatggaaa aactggctcat acagctgaag 540
gagagttttg gtggaagctc agaaattgtt gaccagctgg aggtggagat aagaaatatg 600
actctcttgg tagagaagct tgagacacta gacaaaaaca atgtccttgc cattcgccga 660
gaaatcgtgg ctctgaagac caagctgaaa gatgtgaggc ctctaaagat caaaacaccc 720
ctgtcgtcca cctcctccc actccaggga ctgtggtcat ggtggtgtgg tgaacatcag 780
caaaccgtct gtggttcagc tcaactggag agggttttct tatctatatg gtgcttgggg 840
tagggattac tctcccagc atccaaacaa aggactgtat tgggtggcgc cattgaatac 900
agatgggaga ctgttgaggt attatagact gtacaacaca ctggatgatt tgctattgta 960
tataaatgct cgagagttgc ggatcaccta tggccaaggt agtggtagag cagtttacia 1020
caacaacatg tacgtcaaca tgtacaacac cgggaatatt gccagagtta acctgaccac 1080
caacacgatt gctgtaactc aaactctccc taatgtgcc tataataacc gcttttaata 1140
tgctaattgt gcttggaag atattgaact ttctgtggat gagaatggat tgtgggttat 1200
ttattcaact gaagccagca ctggtaacat ggtgattagt aaactcaatg acaccacact 1260
tcaggtgctt aaacacttgg tataccaggc agtataaacc atctgcttct aacgccttca 1320
tggtatgtgg ggttctgtat gccaccctga ctatgaacac cagaacagaa gagatttttt 1380
actattatga cacaacacac gggaaagagg gcaaactaga cattgtaatg cataagatgc 1440
aggaaaaagt gcagagcatt aactataacc cttttgacca gaaactttat gtctataacg 1500
atggttacct tctgaattat gatctttctg tcttgacaga gcccagtaa gctgtttagg 1560
agttaggggt aaagagaaaa tgtttgttga aaaaatagtc ttctccactt acttagatat 1620
ctgcaggggt gtctaaaagt gtgttcattt tgcagcaatg tttaggtgca tagttctacc 1680
acactagaga tctaggacat ttgtcttgat ttggtgagtt ctcttgggaa tcctctgcct 1740
cttcaggcgc attttgcaat aaagtctgtc tagggtggga ttgtcagagg tctaggggca 1800
ctgtggggct agtgaagcct actgtgagga ggcttcaacta gaagccttaa attaggaatt 1860
aaggaactta aaactcagta tggcgtctag ggattctttg tacaggaaat attgccaat 1920
gactagtcct catccatgta gcaccactaa ttcttccatg cctggaagaa acctggggac 1980
ttagttaggt agattaatat ctggagctcc tcgagggacc aaatctccaa cttttttttc 2040
ccctcactag cacctggaat gatgctttgt atgtggcaga taagtaaatt tggcatgctt 2100
atatattcta catctgtaaa gtgctgagtt ttatggagag aggccttttt atgcattaaa 2160
ttgtacatgg caaataaatc ccagaaggat ctgtagatga ggcacctgct ttttcttttc 2220
tctcattgtc caccttacta aaagtcagta gaatcttcta cctcataact tccttccaaa 2280
ggcagctcag aagattagaa ccagacttac taaccaattc cccccccac caaccctt 2340
ctactgccta ctttaaaaaa attaatagtt ttctatggaa ctgatctaag attagaaaaa 2400
ttaattttct ttaatttcat tatgaacttt tatttacatg actctaagac tataagaaaa 2460
tctgatggca gtgacaaagt gctagcattt attgttatct aataaagacc ttggagcata 2520
tgtgcaactt atgagtgtat cagttgttgc atgtaatttt tgcccttgtt taagcctgga 2580
acttgtaaga aaatgaaaaa ttaatttttt tttctaggac gagctataga aaagctattg 2640
agagtatcta gttaatcagt gcagtagttg gaaaccttgc tgggtgtatgt gatgtgcttc 2700
tgtgcttttg aatgacttta tcatctagtc tttgtctatt tttcctttga tgttcaagtc 2760
ctagtctata ggattggcag tttaaatgct ttactcccc ttttaaaaaa aatgattaaa 2820
atgtgctttg aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa 2877

```

<210> 123  
 <211> 681  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (101)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (223)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (224)  
 <223> n equals a,t,g, or c

<400> 123  
 ctccctctcc cttttgctgc aagactggat ctgctcttga atctgccccg gataattctg 60  
 ggcagcttct tcgatcaagc tgacattatg ggatttgtgg nccttggatt caccacacac 120  
 aaaacagagg aacttcccat catctctgca gaaatagtgg aacatctcct ggtgcctcgg 180  
 gcaatgtagc ctcttttctt tttggactgc acctcagagg ctngtagag ctttggattt 240  
 tctccaccag attccgcaac agcgagttga acctgattgc gttcttcctt acggaagttt 300  
 tgcagagggg acatttgaaa aatccacatg atgtttcccc aatctgagtg atgcatttga 360  
 ggcagaaatt gtgcccacag tcgatgggtga caggtttctg cagaatgtcc aggcagatgg 420  
 ggcagatcac ttctctttgc agtttgttca caaactgccc actggccatg acagaacaac 480  
 agggctgttt caagactgta ggaagctgtg ccaagtctgt aggagccccg gagtccactg 540  
 tggatactgt ttctaggaag ggagaaggga gtcagagaaa gtggagggtca gagattctgc 600  
 ccaattagtt agaagagcag agagagagga aaagaagagg gagaaaaaaa taaagaaatg 660  
 atagaaaagc gtaaaattta g 681

<210> 124  
 <211> 606  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (34)  
 <223> n equals a,t,g, or c

<400> 124  
 ttgatggcca tttggaagta aatttccgca gtanttcata ggtgcactta acacagactt 60  
 tgcttaatga aaatgtcagt tctaatagta actgattcac ttctgaacag aagtgatttt 120  
 aggcataattt cttaacatat atcaagcaaa gtcctgttaa aagatctaaa tgaagaatgg 180  
 agacctcagt gattaaagat attttgtttc tgaccttgag cagattgctt acctgtttctc 240  
 tagactataa cccaacatgt aaaaaaaatt tgaagatggg gatgaggaaa gtgagatata 300  
 tatatatata tgtattaygt ttctagcact tttccctttt aaaaagtgaa aatattccttg 360

69

```
tacatTTTTg aaaaatatat tTycagTyct gaaaaatgta gcagaagtag tgaaaatgyc 420
atattTTTaaa tgttgattat tagataaaatt taacctgctt agggTTtatt gtaactacac 480
ctttcagacg tgtgTTTTyg agtagtgga ttgccagcca ggccctgtgg cttggaaagg 540
catcccagaa atcctcggcc agaaggTgtg gcttgTtaaa gcattgagat tcmgagtatt 600
ttggTt 606
```

<210> 125  
<211> 1211  
<212> DNA  
<213> Homo sapiens

```
<400> 125
aattcggcac gagagcggcc tTcctcggtc aagTcgctgc gTcccgagcg tctgatccgt 60
acctcgctgg acctggagtt agacctgcag gcgacaagaa cctggcacag ccaaytgacc 120
caggagatct cggTgctgaa ggagctcaag gagcagctgg aacaagccaa gagccacggg 180
gagaaggagc tgccacagtg gTtgcgTgag gacgagcgtt tccgcctgct gctgaggatg 240
ctggagaagc ggatggaccg agcggacaca agggTgagct tcagacagac aagatgatga 300
gggcagctgc caaggatgtg cacaggctcc gagggcagag ctgtaaggaa cccccagaag 360
ttcagtcttt cagggagaag atggcatttt tcacctggcc tcggatgaat atcccagctc 420
tctctgcaga tgacgtctaa tcgccagaaa agtatTtctt ttgttccact gaccaggctg 480
tgaaacattga ctgtggctaa agttattttat gtggtgttat atgaaggTac tgagtcacaa 540
gtcctctagt gTctctgttg gTttgaagat gaaccgactt tttagTttgg gTcctactgt 600
tgTtattaaa aacagaacaa aaacaaaaca cacacacaca caaaaacaga aacaaaaaaa 660
accagcatta aaataataag attgtatagt ttgtatatTt aggagTgtat ttttgggaaa 720
gaaaatttaa atgaactaaa gcagTattga gTtgctgctc ttcttaaaat cgtttagatt 780
ttttttggTt tgtacagctc caccttttag aggtcttact gcaataagaa gtaatgcctg 840
ggggacggta atcctaatag gacgtcccgC acttgTcaca gtacagctaa ttttccctag 900
ttaacatatt ttgtacaata ttaaaaaaat gcacagaaac cattgggggg gattcagagg 960
tgcatccacg gatcttcttg agctgtgacg tgtttttatg tggctgcca acgtggagcg 1020
ggcagTgtga taggctgggt gggctaagca gcctagtcta tgtgggtgac aggccacgct 1080
ggtctcagat gcccagtgaa gccactaaca tgagtgaggg gagggctgtg gggaaactcca 1140
ttcagTttta tctccatcaa taaagtggcc tttcaaaaag aaaaaaaaaa aaaaaaaaaa 1200
aaaaaaaaa a 1211
```

<210> 126  
<211> 881  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (7)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (16)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

&lt;222&gt; (34)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (37)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (41)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 126

```

tatgatncct cgctcngttt ctgaaatttt cacnttnccac naggtttcaa catataaact 60
ttcaggggac acagacattc agactatagc accaagctgt agaagctaca tagttgtaga 120
ccagggtcag caaccaaga agcctgactt ccaagctgtg cttttaactt cccaccatg 180
ttgcacctaa agctttggag ttttcctgtg attagtgtt ttggtgttgt tttatttttt 240
ttcttacagg aactcttgca agaagaaagg actatgrgkt cmaactttaga gggasccatg 300
gggmctaaac maaattctka ggccccctca accatctaaa tggacttcct tctgggccag 360
gacactcgaa aattaaacct gaaagactgg ttcaggccat gatgggaagt gggagtcgaa 420
catgcctcat cataccctcc agcattaaca tcaacacaga ccttaaggct gataagaagc 480
atttacaatc tattctctct gaagtcttct acctggaggc ttcactctgca tgataaaact 540
ttggtctcca caacctctta caaccaggc attcctttct atcgataatt actctttcaa 600
ccaattgcca atcagaaaat tgttatatct acctataatc tagaagcccc cacatcaagt 660
tgttttgcct ttctggacag gaccaatgta tatcttaaat gtatttgatt gatctctcat 720
gtctccctaa aatgtataaa accacgctgt tccccgacca cctggagcac atgttctcag 780
ggtctcctga gggctgtgtc acaggccatg ttcacttaca tttggctcag aataaatctc 840
ttcaaatatt ttaaaaaaaaa aaaaaaaaaa aaaaaactcg a 881

```

&lt;210&gt; 127

&lt;211&gt; 917

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 127

```

ccatcttcac attttgcttc catatttgaa gagtctcacg tgccagtaat tgaagaatct 60
ttgagagttc agatatgtga aaaggcagaa gaattaaagg acattgtgcc tgaaaagaaa 120
agcactttaa atgaaaatca gcctgagata aagcatcagt ctcttctcca gaaaaatgtg 180
agtaagaggg atccaccag cagtcatggg cacagtaaca agaaaaatct attaaaagta 240
gaaaatgggtg ttacacgaag aggtagatcg gttagtccca aaaagccagc cagtcaacat 300
tcagaggaac atttggataa gattcctagt cctctaaaaa ataaccctaa aagaagaccc 360
agagatcaat cctcagccc cagcaaaggg gaaaataaaa gttgtcaggt cagcaccagg 420
gcaggctctg gacaagatca gtgcagaaaa agcagagtcg tcgccagccc aaaaagcag 480
caaaaaattg aaggaagcaa agctccatca aatgctgagg ccaaattatt agagggtgta 540
agtcgaagaa tagcaggcta tacgggcagt aatgctgagc agatcccaga tgggaaggaa 600
aaatcagacg tcatcaggaa agatgcaaag cagaatcagt tggaaaaaag cagaacaagg 660
tctccagaga aaaaaatcaa aagaatggtt gagaaatctc ttccatccaa aatgactaat 720
aagactacaa gtaagaaggt atctgaaaat gaaaaaggaa agaaagtaac cacaggagaa 780
acaagttcta gtaacgataa aataggagaa aatgtccagc tatcagaaaa gaggtgtaag 840
caagaacctg aagagaaggt agtttcaaac aaaacagaag atcacaagg gaaagaacta 900

```

gaggcagctg tacaaaa

917

&lt;210&gt; 128

&lt;211&gt; 1287

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1142)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1233)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1265)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1271)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 128

```

tttaaaaacc cctggagggtt ttaaccttgt gatgccttta tgaatatect gttgaaatat 60
ccttccccct atgccttata aaccagagaa agccctttga agccttataa tgccaatgga 120
agatacttag aagtaaaca aatagagagg tatatgtaga ttttcttagg tcattagttt 180
gtgtctttgt ctggttaggt gaaactactg tcatatgact ctctccctgg ccagatttta 240
atagtcatac taatactgat gtgaatcctg ataattaaac tatcttgtca ttacatttgt 300
agataaagtt ttggttagaa atgattttgt atgtgttagg tatggtaata cagtctcaa 360
taaaagggtca tgttaagata aaagggtcatg cttacttttt aattaatttg tgtaataaaa 420
tttaggtcct tggaaaactt atttttcaaa taaatgaacc tttcaaataa aaaagagaat 480
tagtttaacc tttatctcat ttcctattat aggggtattg aatggacaag tttgactagt 540
tttctttctt ttgctacctc aacaccaaac aatatgggat tagtgagaaa tgaacttcaa 600
ctggttgatc ttccaacagg tttgttttta aagatccaaa taggtttgtc atattgaata 660
aacatgttgc catttataaa acatgtttga aagtacttct ttcaccttgg aatttttttt 720
tatatttcat gcttatatat ttatyccttt attctcta attgcccta gaaaggctc 780
atcattgttt acatggaaat gttgttggca caaatatcat gtaaaatgga ggaccattag 840
cctgaamaga cagattcatt aaaaaatagg ataccggttc tacttttaag tgcattgtta 900
tatgtaacca actttaaaag atcgatttaa aaataactct gtcaatggac tttattagag 960
tctgtgctgg aaattttggc ttttatagga aacacttaga aaatttatag gtttaaggatt 1020
gttttttaaat gctcaaatlt aaaacttgta atagtctctg gcygaatgga atagagaaac 1080
ttaatttggg attttgaaga ttctacagta ggaaacgtcc ccaataaggk aactttttca 1140
gnaattggaa agcctaaacc ccagtgaatt tccaaaataa rgaatttggg aaattataaa 1200
gggraagrgg ttccaaatta ttttcctggg ggnatgcagg aagggttcaa aagaggggtt 1260
ttttnaaaat nacaattgtg atgaggt 1287

```

<210> 129  
 <211> 603  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (391)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (517)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (580)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (602)  
 <223> n equals a,t,g, or c

<400> 129  
 cgcttgggct tggcgggtat aggttgcagt gagccaagat ggtgccactg cactgcagcc 60  
 tgggtggctg aacgagactc cgtctcaaaa aaaaaatcta aatctgacat ttgatgctat 120  
 ttttattaat attggaatgt tctgtcttga actttattca atataatcaa gaataaagat 180  
 agagtaaacg tcaactgattt gtaçtattaa gagagaaaaa atatgccaca caactaaaca 240  
 taggttttaa ttatgaagaa atttagaata gaggtttatt agatttaggg aactactaaga 300  
 acaaaaaagg aaggagtgat acctgcctga gtggacagct gtaaatacagc tgtaattact 360  
 gcagttgtwc caatagttgt gartggctcc nagtcmcttt argagtcctt ggaartwctt 420  
 ggtacacatt tgttggctgt wccttaaagg aartggcaar tccagtttgt tcyctctacc 480  
 acactaract gccactgaca agtttgggtc tgttggnttc aaaattttgt aagccatttt 540  
 cacaagtaca aagatacatt ttaaccttgt cttctccaan attactgagt aggaatttta 600  
 tnt 603

<210> 130  
 <211> 532  
 <212> DNA  
 <213> Homo sapiens

<400> 130  
 ccacgcggtc cgaagagagg ttggtagaaa aactaaaact ctacaatcta tttcttaaaa 60  
 ataatgtttt tctttctttt ctttcccttc tttcttttct tttctttact tttttttttc 120  
 ttttcttttc tttttttttt tttgacaggg tctggctcta tagtcagggt tgagtagagt 180  
 ggtgtgatca cggctcactg caaccttaac ctctaggctc aagtgaccca cctcagcctc 240  
 ttgagtagct gggaccacag acacaccacc atggccagat agttttctgt attttttctt 300  
 tgtagagaca gggtttcacc atgttgccca ggctggcttc aaactcctga gctcatgtga 360  
 tctgcctgcc tcggcctccc aaagtgctgg gattacaggg atgagccacc acatgtggcc 420



73

cattttttct tcataagtga gttttagtgg tttactttgt tctaattttt tgaggctatg 480  
ttcaggaagc catacagctt gaataagtaa ccatctcagg agaaaaaaaa aa 532

<210> 131  
<211> 776  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (630)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (669)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (769)  
<223> n equals a,t,g, or c

<400> 131  
aatcctcagc cattttgtga aaatagccaa gaaactteta gaactcaaca accttcattc 60  
tctcatgtct gtggtatcag cattacaaag tgctcccatc ttcaggctga caaaaacctg 120  
ggctctttta aatcgaaaag aagactacct ttgagaaatt ggataacctga tgtcgaaaga 180  
agrraattac aagcggacac ggggaatatat ccgargcctg aagrtgggtc caagtattcc 240  
ctatctagga atctatcttc tggrrtttaat ctacattgrt tctgcatatc ctgcctcagg 300  
agtaatcatg gaaaatgaac aaagatccaa tcagatgaac aatattcttc gaataattgc 360  
tgattttacaa gtttcctgca gctatgatca cctcaccacc ctgccccatg tgcagaagta 420  
cctgaagtcc gtacgctaca ttgaagagct ccagaagttt gtggaagacg acaactacaa 480  
actgtcgctc agaatcgaac caggaagcag ctctccaaga ctagtctctt ccaaggaaga 540  
tcttgtaggt cctcttgctg gctccgggtc tgcgaggttc agccggaggc acctgtcctg 600  
acacatctgt tgctggcagc ctcccacacn ctccagtgcc cagacacagg gaagagccac 660  
agcctaggna acaatatgga tgtgttcagt tgagtgttag ttgaggagta aaagtgcgac 720  
atttccttc ggagaaaggc aagggcacct acttggaaga cagtgttcnt agagtt 776

<210> 132  
<211> 689  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (348)  
<223> n equals a,t,g, or c

<400> 132  
atcagggacc cttttgatcc aattatagtt attgggcaga tacagtagta ccctattatc 60  
agaagaccta gtttcaaacc ctgagtcatt ttctaattca ctgtgtgacc ttgtacaagt 120

```

cacttaagct ctctgatcat tggttcaaca tctttaatat gaggagagta atgcctatct 180
caattacctc ataaaattat tgcaaagatc aagtgaagtg atatgttaca aattatttct 240
aaattataag attctgtata agtggaaggg ttaagtatac tcccatatta ttaaaccacc 300
tacgtatcac tcaggattct atatgactct gagttctcaa tttctagnaa atgggtcccat 360
ttttgctttg ttccctacaa ttctacggag tctttttttt ttwaaaggaa ggggtgtaggc 420
aaaggtaa at gggagaaaac atggaatcac ataccactct ttgggtgctgc taggcaagaa 480
ttttaaactg agtttaggtc accatcgtgg acttaaggtc catatcacct caggagagaca 540
agtagagtgg gaggcattca aaaggtaggt gattcttctc ccctctagtg aagaatacaa 600
ggtcaattta caaaaaagca ccagcagcaa ataattggaa aattaaattc ataaamcatt 660
tataatagcg tcaaaaaaaaa aaaaaaaaaa 689

```

<210> 133

<211> 555

<212> DNA

<213> Homo sapiens.

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (36)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (308)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (471)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (484)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (489)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (510)

<223> n equals a,t,g, or c

&lt;400&gt; 133

```

ttcntgccccg ccccatcctg tgctttggcg taggcnatca ctgaagactt tctattttctc 60
cattagttca ttcattcttg tagctagact catgacggag ctgctgccac cccagcagat 120
ctgctcgcct tgctgcttct tcaagggtctc cagggccttc gcagaggtgt cagcaactgc 180
catgaccact tgcagcagtt ggctgtagga agtcagattc tgggtgcgtgg cctggatgat 240
ggggccgcac ggggtggaggt cagggcctgg gcgctggcag cactcgccca gctcgtcgtc 300
gtagattngg agaaaagcca agattagctg gtggaagtcg gaagtgacca gacgcagctt 360
ctggtctagg gtgctgatgt cggctgcgcc cgcaarccc cttgcttcat gctgtgcaaa 420
ktactccgtt tctaaagcgc gtgcaattgg gcagcattct cctggcagtg nctgggcaac 480
ttcngccanc tttttcttct tcttcggaan ttggcaaagg catgggcccc atggccatca 540
tcaatctggc ttgtt 555

```

&lt;210&gt; 134

&lt;211&gt; 790

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (776)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (780)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 134

```

gcaagaatat aaaattctga ggccattttt agctctaagc cagaccatgt tataacttct 60
taactgaata cttcttatct atactttttt tctatatctt tccatctatc tgtaagtagc 120
ttttcccatg atctgacttg tttatatttc ctattaactg acaaagcatt taaaaacagt 180
taaaaaattgt ctgcagaggc atttttaaatg tcaagacatt ataaaaatact ttagatttat 240
acagcaattg tgaacacctt tgacaaatga acatgtctgt tcagcctttt tggtagccct 300
ttttattttg cttaggtaga tcaaattcta agttgatctt ttctagcagc agggtcagag 360
tctagtgatc gtttttaaaa tggcttagat gctaccttct ttttctgaga actcagtgtg 420
atataatcct tataagatat tgacagctaa ttttatggat taccctaccg ggacagtggg 480
acctaagtag tttgaagacg araaattgtt ttgattcaka agcaatgggt tcactagtga 540
aaggaaagat cccacgatcg taagtggtaa atgtttatat ttgttgaata actctctgaa 600
aaaaggaaat aaagtagatt agccttggtg agaggtggct taagagtggg tttatgaatc 660
taagttttat ttgaaaaatg tgtgaacttg ttttaaggtaa atgtgagaat taataaagga 720
attgagaaga aagatatttg atcgtttttt ggaataacat ttaccaat taagangtn 780
aactactttt 790

```

&lt;210&gt; 135

&lt;211&gt; 1408

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (116)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1364)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1381)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1393)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1399)

<223> n equals a,t,g, or c

<400> 135

```

tttgccagct ctgaatcttt attttaattg atctttttat tgatgtgtta tataaatgag 60
gaagaaaaat tttgtctgat tatgtgaagg atctttctgt acatgaaaag aagggnaaat 120
aaacttgcaa ttgaatagac tgattatagt agcactgaga cacaaaaaga ttgaccatgt 180
tgccctccag acactcatac aaggctcgtg acaccagggt gaaggcggac tatttaggggt 240
ggtaaaggaa ttatgattgt tcttgagcca aagtaattta gtttgaatat aatgaaacat 300
accctgtaaa gactgctaga aagtaaaagg attcgtcttc agagggttga gaagggtccc 360
ttcttagtta aaaccaaact gggaaaagta atactggata aaatattcag gataaatttt 420
gcctcagcag aatttcaaag ggcagttgtt cctctgtttc attattgaat sttcagaata 480
tagttaaagc caaargctta aaatatgtta aatgtttcac ttataaccat aatcttttta 540
catagagcat actctgcctt cataataact aaatcctctg catgtggtag atgagtacgt 600
ttaggaaata ttgtcagtg c aattaaatgg cctacacttt aaacagtatc ataaaaacaa 660
atccttaaat atattctact tgagtcacaa aagctgaaca acagaaagggt gttttgtttt 720
tgccctttct acagtgttg ggtgagaatc agatgagata gtatttkgac taaacacttc 780
tgaaattgta aatatatgg ggcattattg ttcttatgtc ggcttaggag gataccaaaag 840
gggaagttaa tggcacagt gcacttatgt agctttctaa gctactcaat gtgattcttg 900
ttctctttgc tgttcttttt ctcctcccc atgggtgcct tcagagagaa aaggaatgta 960
gataaatgaa tccctgcaga tgtgtcctga catttcaggg agggacaggg tataatgatg 1020
ccatcctgca aaggcagcct gtgtgagaaa aagaaatcaa ataatgtgga ttttaaaatt 1080
acaaaagaca ttcatTTgca gtttatgaaa ggaaaatgta gtttggatac aaagctgatt 1140
aaattggatc aagaaatatt agaattaaat gcaaaaaata atccatgcat ttatggtttt 1200
gatttttata tattcccagc tagttgaaaa tggatgattc ccacaagaag cataactcag 1260
cttggttcct gcttaccgga gtatttccac tatggtatat attgatacat tccttccatt 1320
atggtagggt gtataaccaga ggtaccagtt accgggtggg atcntaattg gaattttggc 1380
ncccggggtt ccngggganc ctttacia 1408

```

<210> 136

<211> 902

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (814)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (902)

<223> n equals a,t,g, or c

<400> 136

```

aattcggcctt tcgagcggcc gcccgggcag gtacttataa ttttggcctt ctgcactact 60
cttttgctct tacgaacata atggactctt aagaatggaa agggatgaca tttacctatg 120
tgtgctgcct cattcctggg gaagcaactg ctacttgctt tctatgcctc taaaatgatg 180
ctgttttctc tgctaaagggt aaaagaaaag aaaaaatagt tggaaaataa gacatgcaac 240
ttgatgtgct tttgagtaaa tttatgcagc agaaactata caatgaagga agaattctat 300
ggaaattaca aatccaaaac tctatgatga tgtcttccta gggagtagag aaaggcagtg 360
aaatggcagtg tagaccaaca gaggcttgaa ggattcaagt acaagtaata ttttgtataa 420
aacatagcag tttaggtccc cataatcctc aaaaatagtc acaaataata caaagttcat 480
tgttttaggg tttttaaaaa acgtgttgta cctaaggcca tacttactct tctatgctat 540
cactgcaaag gggatgatg tatgtattat ataaaaaaaa aaacccttaa tgcactgtta 600
tctcctaaat atttagtaaa ttaatactat ttaatttttt taaagatttg tctgtgtaga 660
cactaaaagt attacacaaa atctggactg aaggtgtcct ttttaacaac aatttaaagt 720
actttttata tatgttatgt agtatatcct ttctaaactg cctagtttgt atattcctat 780
aattcctatt tgtgaagtgt acctgttctt gtcncttttt tcagtcattt tctgcacgca 840
tcccccttta tatggttata gagatgactg tagctttcgt gctccactgc gaggtttgtg 900
cn
902

```

<210> 137

<211> 730

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (606)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (647)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (671)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (685)

<223> n equals a,t,g, or c

<400> 137

```
tacttcagat acactagtaa agcctgctgt attccaacta atgaggacag atatgtaata 60
tatatacatg tatatacgta tgtatgtata tatactatat atataattat actttaagtt 120
cctaaggtag atgtgcagaa tgtgcagggt tgttaaatag gtatacatgt gccatggtgg 180
tatgctgcac ccatcaaccc atcatctaca ttaggtatgt ctcctaatac tatccctccc 240
ctagccaccc acccccagac agggcccgct gtgtgatgtt cccctccctg tgtccatgtg 300
ttctcattgt tcaactccca cttatgagtg acaacatgcr gtgtttggtt ttctgttcc 360
gtgttagygt gcwgagaatg atgggtttcca kcttcatcca tgwccctgca aaggrcatga 420
actmattcct ttttatggct gcatagtatt ccatggtgk tatgtgccac gttttcttta 480
tccagtctat cattgatggg catttggtt ggttccaagt ctttgctatt gtaaatagtg 540
ctgcaataaa catacacatg tctttatagt agaatgcaca tgtctttata gtagaatgat 600
ttatantcct ttgggtatat aaccagtaat gggattgctg ggtcaanggg cattctgggt 660
caagatcctc naggattcac cacantgtgt tccacataat ttaagctatt ttactctccc 720
accagcagtg                                     730
```

<210> 138

<211> 524

<212> DNA

<213> Homo sapiens

<400> 138

```
ggcagaggag gccactgtgc ctggtcaaga aatggaactc ttacacactg ctggtgggaa 60
tgtgaaatgg taagccactt cggaaaacag tttgacaatt tcttatgcta aaaatacacc 120
tatcagatra tttagccact tctaggtatt tacttaagaa aaaataaggc atacatccat 180
atgaaractt gtaataaaat gttctcatta tttttatttg aaatagctma aactggaaac 240
aacccaaata tccatcagca agtgaatggr taaacaaatt gtratatattg tatgcaatat 300
aacaccactc agtaatatga aaatgaacta ctgatgtttg caaacgcttg aaattcaaaa 360
taattatgct gagtgacaga atccagacca caaataatac ataatgtwtt attctattta 420
cataaagttt tagaaaaatc caaactaatc ttartttacc aaagccatac caatggtata 480
tggggcttgg ggcagktaa acsgattatt gaaaaaaaaa attt 524
```

<210> 139

<211> 869

<212> DNA

<213> Homo sapiens

<400> 139

```
ctgattcctc ctacatatg aaaagtgaag gttgtgagtt gttttcctct tatttaaaca 60
ttggcctatt ataattctgt ttggttattt ttctcctgta agcatcctga tttttctgta 120
ggaacttttc tttaaatgac acacattgcc acttgtgtag atatttttaa gttctttggc 180
taagtcctct cctaactgcc tgtcctctgg ttagggccct cctctccac tagtggtgaa 240
tgcatgtgtc tgtctgatca gcatcactgc acacggaggt ctagtgagcc tcttgctaag 300
tgtcacacac actcttccca aagacgtgat gagttaaagt tgtattctga aatcatgaag 360
ccagagcctg tgccagacct tctgctacct ctcatagaat tgctctgtaa ttctaaattt 420
aaaattagaa gtagagagag ataagccatc gcccttttgc ctctgagaat tggctgctgt 480
ttctaataa attattttct aagatagcca gatagttaga aaaagatttt cattgatgac 540
atatctttaa actttcttgc atcagtattc taaattgagc aaactgaaag attttcatca 600
```

79

```

ggaaaggagc actgtgggaa gagcccagta ttcacatttt ttccccattt ttcagaagcg 660
acatttcata tataggtgcc aaaagtgaat cgggggtgcgg agagtgggaa ccttttgaat 720
ttatgattgt cacagagatg gtagaaatta tgatctgact ggaaaaacaat cctgtatccc 780
ctcccaaaga atcatgggct ttttttttga attaaaaagc agacaaatag actttctcgg 840
gaaaaaaaaa aaaaaaaaaa cgcgggccgc 869

```

&lt;210&gt; 140

&lt;211&gt; 586

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (5)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (439)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (563)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (577)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 140

```

ggggnaccag cgcggggtgcg cagacgaaag gcgctctttg ccagctgaaa gttcccacgg 60
aaaaactacc atctcccctg cccaccatgg cagacgaaat tgatttcact actggagatg 120
ccggggcttc cagcacttac cctatgcagt gctcggcctt gcgcaaaaac ggcttcgtgg 180
tgctcaaagg acgaccatgc aaaatagtgg agatgtcaac ttccaaaact ggaaagcatg 240
gtcatgccaa ggttcacctt gttggaattg atattttcac gggcaaaaaa tatgaagata 300
tttgtccttc tactcacaac atggatgttc caaatattaa gagaaatgat tatcaactga 360
tatgcattca agatgggttac ctttccttgc tgacagaaac tggatgaagt cgtgaggatc 420
ttaaactgcc agaaggtgna actaggcaaa ggaaatagag ggaaaataca atgcagggtg 480
aagatgtaca ggtgtctgtg catgtgtgca atgagtggaa gaatatggct gtagccataa 540
aaaccctgtc aaataaaacg ggnaacattc aggccangga cactg 586

```

&lt;210&gt; 141

&lt;211&gt; 614

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (546)

<223> n equals a,t,g, or c

<400> 141

```

aaataaaaag gcagtggccc caccacatTT ttttcagcat agtagctggc attttgttat 60
cattagccag agtagcttCa gcatataagt tattgatgtt ttccaacttc aaaagtgcatt 120
tttatcctcc cagtaaattt gataatgatt tgtcacagct ttgtcatctt ttgacttttg 180
cttatgggcc tcacttcgta caactataac atgaaaaagg attgtcctaa agtaagggaa 240
tcagttaatg gtaggatgaa gaaactgtaa aaactcctag aaaaaaaacc tgtgtgcatt 300
tttctggaaa gttttcaaac tgtgtaattc agttttcatt caattatata atttggttat 360
atgcttttaa aaacatttgt ctaaagtgtc cgggttttct tctggtctta gagtcagctg 420
agtgtgggct atgcagccac tcgtattttt gcatccagaa aggagtaact ccttttatat 480
gaagrttttt tttttaagct tagatgctat gtaaggagaa aactatttgt aatcacatag 540
taccnngggr ggggagtgrt ggatgctttt ttaaaaaagg rtatttaagt atattatgta 600
atttaaatat aaat 614

```

<210> 142

<211> 574

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (522)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (574)

<223> n equals a,t,g, or c

<400> 142

```

ntgttaagtt ctgacattng gagaaaatac attacaaaga acaggagctg gtttttgggtt 60
ttccttgtgg ctgtgttttt gaattgaagg gatgtgggat ggtggtgaca gaagtctgag 120
catagtttct gaataattgg aggggagatg ggcattcttt gggactatgt ccgcattaca 180
ttgagtttct tccctctagg aagagagagt ttgtgtttta ttttctgtaa gtaaaagcta 240
catgtttagg atttttaaac catattaatt gttatatatt gtatttcata attatattat 300
gtgttagtgt gtactggaat aacatgtttt atttggttag ttggtgcaaa agttttctaa 360
atctactgct gtattagaaa ctgaaaaggg agggaaattc cagatgtttg atgggaacat 420
cactggtgaa tatctaggrr tggttaagtag acycaagggt gaagragtaa ggtgggggta 480
acccttaata ttaccttkgg tatatgcccg tttttagcac cngaatacag ggggtccttt 540
gttccccaac cttaacagca gccctgtct ggttn 574

```



## 81

<210> 143  
 <211> 2012  
 <212> DNA  
 <213> Homo sapiens

<400> 143  
 tatgcaagct cgaaattaac cctcactaaa gggaacaaaa gctggagctc caccgcggtg 60  
 gcggccgctc tagaactagt ggatcccccg ggctgcagga attcggcacg agtgtagagc 120  
 tcaaagaaat ctgccaacat gtatgtggac tcttgagagg tgggctttcc cagtacatgc 180  
 taaacagact tgttatgcc aagaggaagt aatagaaatg atagcatcaa atatccaaac 240  
 tgacaggaag tttcttttgc atagcataga acatggttgt cttctgagtt ccactaatgt 300  
 tccaggatat cttggccctc tgccctctggc tgctccctgg tgtttggcac catagcgttg 360  
 tcacttacaa ccattgcctt gggacacaca gagtgaactg tttgagtgat aagtaattta 420  
 ggtagaaact ttacccttaa tttcaaatga taccaaacag ctctactata cccaaggga 480  
 cgctctccgt agcttctgga ttccccagtt tccttctaga aacaaggact ccaatagcac 540  
 tataacccta aacaggccct aaccacagaag aatacaccac aaaatgcgat tgattttctc 600  
 aaaatatcac agtcttagac actatacaaa taattcaaga aaattctttc taccctgcag 660  
 tggatatagt attctattat attctccagc aaaactttta ggacttttca aactcatttc 720  
 taagccaaat agtttagata aatattttacc cttatatattg gggggaattc aggctcacca 780  
 tttgccgagg caagcccatc aacagtctag aggcattatc tgtgtcatc cttcccgctc 840  
 cttcataga atactacttt ttcttttgt ctctggcca ttctccatca tctgtgatt 900  
 attgctaacc acaggatgct ggcaaagctt acagtgatag gcacatgtgt tcagtgtatg 960  
 ccaatacact cttatcacag tggttattgc ttcttactct tttcaaatgc attattctac 1020  
 ccctcaacct atatccaatc attagaacta tacctgactg gagccagaa cttgggacca 1080  
 atacttaatt caaatagcag gggcttgctc acaaacatta agcccaaaaa gaagcacagc 1140  
 actttgaaaa gtcaaataag cctttggtag ctctgtacat ttgcaatttt acatttggtta 1200  
 ttagtttata gcactaataa cacttcagtc gtgaatctac agtctcaata tgataagtct 1260  
 tagaacatgt tctagaaata gtggtacctt gctgtatata tacttagtaa cttatacccc 1320  
 aatataataa taagtattaa atacagattg tgtatgcatt ctttgtgtgt atatgccaac 1380  
 tgtactactt aacctcactg atgagcaatt agaaaaatac acaattgtc atagtgaata 1440  
 taagtcttgg tcaattcaga tgatacgtga acctgataaa tgctctaata gatatgctat 1500  
 tttgtcctgt attgcttgtt ttacagtatg gtgcatgttg tttgctaagt aaaatgataa 1560  
 taataataaa gtataccaat ttttaaggta gaattaaaat tttgcacata tgcttcttga 1620  
 tattctgaaa tgtattctgt ggcttaatta tcttattcat acacatttca ctttggcttt 1680  
 ttacccttag gaaataactg tccaagtata tatctcgtct tctttcttgt aactttgatt 1740  
 aaactgctta cttcaactta caacattgta aagccagaat acctcatttt aacagtgaata 1800  
 aaaaatatga tgacctgatg tgttctcttg tatttgattt gaactaccta aataggctta 1860  
 actgtaataa taaatataca attttggcag gcattttttc ctttgtttgg atgaacattt 1920  
 tgttattggt ccacttctaa ttttgtctta aagagttata aactcagtgt caataaaaca 1980  
 tcttgttata taaaaaaaaa aaaaaaaaaa aa 2012

<210> 144  
 <211> 558  
 <212> DNA  
 <213> Homo sapiens

<400> 144  
 aagttttttc ttaccccatc ctagtgagtt tgaaagtggg cctgaccaga atgtctcttt 60  
 cccattttgc cccgtttgaa ttaaataata tgtctactct ttaaaggctg aaggggtggg 120  
 tgaggggatt gtttctcatt ttgtctccca agtcattttt ctgctgtgaa atatgaccag 180

82

```

gcttgtagga agactcatct tggagaaaat gtgaagtaat caaattgctt gagattagtc 240
tcctattgta tattagagcc aaaacacatr ataactttgg caacagggag ttgtctagac 300
tcaattttca gaggtcccat tgtagtgagt taatattgct aatcatgtca atcacttgac 360
akggaagtca gtggcaaatc tttaaagtat gcatttgata ctggcaaata tatactactg 420
atgtttcaca aaagaatctt agaatctgta gaaaacatta attacttcca tgaattattt 480
ctaaagtata actttaaagt tttgattttt ctatttaaata aaaaagcyat kgatgkgttt 540
agcakgtccc caaataga                                     558

```

&lt;210&gt; 145

&lt;211&gt; 1026

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (182)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1007)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1014)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 145

```

gcatttatat cctgttaagc attaatagct aatcactggg acttgaattc tgatggcaga 60
tagtctcttg cttagtgaga tggagttaac tatttttttag taggaagtga gaacagctga 120
ttttcatgcc acgtttcata gccccacttt tggtagacta ccaccaagct kcttcgcgta 180
anagtyggca tcttggaat gaatgccag ccgctcgtgg gttggtgcaa agaagtataa 240
acatatatca ctaaggaaaa agaaagtttg tcttgccctt ctgacacagt gtgtgcactt 300
caggcaattt ttggaaaata taaaaaatc caawttctgc ctttcagcag catcaattgc 360
taggaacatt tcattcattt ccctgtaata ttaatgttct ttaagcataa tcactaatta 420
taagttgtat cctatttttt tccagcttaa tttctgtggt ttattgaaaa ccaagtataa 480
atgtgactaa aagcattttg ctttgttttt atagttaact ttcytaagggt tatggacatt 540
twataatgta acatttgatt ggcctggcct cttgacaatt cccttctagt tatgcatatc 600
ctccctgttg cccacatttc ttgtttttaa actcagtttc ttgttttcca gttgttgcta 660
tgtataacac ccattctgaa agagagtata taggaagtta ttcagataac ttttgtagta 720
gtgatattca actatagcag taccttaact catgatgagc ttaggaacat aaaagataat 780
tgttgcttga atagcaccct cagagatact gacctaattg gtctggggtg gagatctggc 840
atggtagttt ttttcaagct ccaatcatcg gccagacagt tgctttatgt aggtttttta 900
atgccaaagg cagatatgaa gtagatttaa ttaagacttg acttcagcaa tacaggggaa 960
cttaaaatac ttrtttttct ttaaactgca ggagtcactg ttaggtnttg cttnaaaaaa 1020
ttgcat                                     1026

```

&lt;210&gt; 146

&lt;211&gt; 521

&lt;212&gt; DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (440)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (474)

<223> n equals a,t,g, or c

<400> 146

```

gggacctggc aagcggcggc tgcagggcag gtccaggggc cacatggctg aggggggacgc 60
acggagcgcac cagaggcaca atgaggaaat tgaagcaatg gcacccattt atggcgagga 120
gtggtgtgtc attgatgact gtgccaaaat attttgtatt agaattascg acgatwtwga 180
tgacccmaa tggacacttt gcttgcasgt gatgctgccs aatgaatacc caggtacagc 240
tccacctatc taccagttga atgctccttg gcttaaaggg caagaacgtg cggatttata 300
aaatagcctt gaggaatat atattcagaa tatcggtgaa agtattcttt acctgtgggt 360
ggaggaaaat aagagatggt cttattacaa aaatctccag gtgacagaac caggcccaga 420
tgtaaagga ggaaaactgn aggaggaaga tggtggaatg tggaagggtg atcnccattt 480
ttagcatggt cagccgggaa agttcgggtt aaaagcattg g 521

```

<210> 147

<211> 557

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (17)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (527)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (543)

<223> n equals a,t,g, or c

<400> 147

```

ggattaacca ttaaatngat tgaaaaggaa actttgcacg gtatgagctt cataccccca 60
ccaaacaaag tcttgaagggt atttatttta ccaagtatat ttttaaagtt gttttataag 120
agagactttg tagaagtgcc tagattttgc cagacttcat ccagcttgac aagattgaga 180
ggcccatgcc aacagtctaa tctaagagat tagtctttca aactcaccat ccagttgcct 240
gttacagaat aactcttctt aactaaaaac ctagtcaaac aaggaagctg taggtgagga 300
gatctgtata atattctaata ttaagtaagt ttgagtttag tcaactgcaa tttgactgtg 360
actttaatct aaattactat gtaaacaaaa agtagatagt ttcacttttt aaaaaatcca 420

```

## 85

```

gtagtaaaga tgtaaaatta aaaaatggaa ttctccatta actgtggatt ttactaaata 1020
gaattactgg tgaagcagat ttatccatcg agactatctg gtatgcgtta tgtatgtagt 1080
ctgttgctgc tgaaagatgt ctgtgtgcct gtatcaacat gtgacttcat gtaaagtttc 1140
tttgtgttca cagttcttag caaatgcagt tacaatccat agatagccag cagtggatgt 1200
tactccagga aaatgcagga ttaaaattgt ccttgtgtaa aaaaaaaaaa aaaaaa 1256

```

<210> 150

<211> 698

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (683)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (692)

<223> n equals a,t,g, or c

<400> 150

```

cctcgctcaa gccctcagag aagaacattt tcacctctt catggtggcc acagctgcca 60
tctgcatcct gctcaacytc gtggagytca tctacctggy ragcaagaga tgccacgagt 120
gcctggcagc aaggaaagct caagccatgt gcacaggtea tcacccccac ggtaccacct 180
cttctgcaa acaagacgac ctcttttcgg gtgacctcat ctttctgggc tcagacagtc 240
atcctectct cttaccagac cgcccccgag accatgtgaa gaaaaccatc ttgtgagggg 300
ctgcctggac tggctctggca gggtgggcct ggatggggag gctctagcat ctctcatagg 360
tgcaacctga gagtggggga gctaagccat gaggtagggg caggcaagag agaggattca 420
gacgctctgg gagccagttc ctagtcttca actccagcca cctgccccag ctcgacggca 480
ctgggccagt tccccctctg ctctgcagct cggtttcctt ttctagaatg gaaatagtga 540
ggccaatgcc cagggttgga gggaggaggg cgttcataga agaacacaca tgcgggcacc 600
ttcatcgtgt gtggcccact gtcagaactt aataaaaagtc aactcatttg ctggwaaaaa 660
aaaaaaaaa aaaaaaaaaa ccnggggggg gnccggta 698

```

<210> 151

<211> 1710

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (142)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (208)

<223> n equals a,t,g, or c

<220>

<221> misc feature  
 <222> (242)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (317)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1644)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1707)  
 <223> n equals a,t,g, or c

<400> 151  
 aatttcggcc cgagggtgag ggcagctgga gtgcgttctg ccgaagcttg tggttgcacg 60  
 cccttcgtct taggggctac cttccgtggt gagtgtgtgc ggtgttgac ttgggggttc 120  
 ttctcgctgc gtggccgcac gnggctgaac ccttccact ccattccctc cccgcacccg 180  
 gaccagcccc tgggacgccc tcggacgncc acccgctcca accctgggga agcctcagag 240  
 tngcagcgaa ggcctyttgc ctttccgct ctgcgcttgc tgcctcgc cagctgcttt 300  
 gttgttgttc ggtgcanacc atgtccaagt ctctgaagaa gttggtggag gagagccggg 360  
 agaagaacca gcccaggtg gacatgagt accggggcat ctccaacatg ctggatgtca 420  
 acggcctctt taccttatcc catatcacac aactggtcct cagccataac aagctaacaa 480  
 tgggtgccacc gaacatcgca gaactgaaga atttggaggt gctcaacttt tttaataacc 540  
 aaatcgagga gctgcccaca cagatcagta gccttcagaa actcaaacac ctgaaccttg 600  
 gcatgaacag gctgaacact ttgccacgag gcttcggctc cctgccagct cttgaggttc 660  
 tggacttgac ktacaacaac ttgagcgaaa attctcttcc tggaaacttc ttctacctga 720  
 ccaccctgctg tgcactctat ctaagtgaac acgattttga aatcctgccg ccagatattg 780  
 ggaagctcac aaagtgcag atactcagcc ttagggataa cgacctgatc tcgctgccta 840  
 aggaaatcgg ggagcttacc cagcttaaag agctccacat tcaggggaac cgcctcaccg 900  
 ttctgcccc agaactagga aacttggatt taactggcca gaagcaggta ttcaaagcag 960  
 agaacaatcc ctgggtgacc cccattgcag accagttcca gcttggcgtg tcccatgttt 1020  
 ttgagtatat ccgttctgag acatacaaat acctctacgg cagacacatg caggccaacc 1080  
 cagaaccacc gaagaagaat aatgacaaat cgaaaaagat cagccggaaa cccctggcag 1140  
 ccaagaacag ataaggaagg gattggcatc ggctggcctt ccagcacctt ctctctccaa 1200  
 cacttcattc tctcttgccc tgtctctcaa ataaacccaa tgctgcgtgt gaggcctttt 1260  
 ttatttttct tttactctc tttctaatgc ttcccactt accttttaga ttcttttgct 1320  
 aggtgggaga ttgttataag gtctttaaac catttccatt tgtttcttta acattaccaa 1380  
 aagcagggaa caaagctctt attcaactgc gaattccata gtgggctctg gcttttcttg 1440  
 aatagatata acaaggttgc ttattatcaa aagaataatt aaaatcatgt aaccatttaa 1500  
 atgtcactgt taacactttt cactctttct gttgattcac ctaactcatt attttgcttt 1560  
 attaaaagtc ttccttcacc accgagatat gctaatttaa cttacaaatg attttaataa 1620  
 aatcttgagt ttgtaaaaaa aaanaaaaaa aactcgagag tactttctaga acggccgcgg 1680  
 ggccatcgat tttccaaccg ggtgggnacc 1710

<210> 152

<211> 1121  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (532)  
 <223> n equals a,t,g, or c

<400> 152  
 ggcacgaggc agaatgggtcc tgccagccac agcagggccc tgggtggggat ttgcactggg 60  
 cactccaatc ctggagagga tgccagggac ggggatgctg aggaagtcag agagcttggg 120  
 acggttgaag aaaactgagt cttgggcaat ttgtgctaaa actagggtgag ttgccaaacc 180  
 caaggcatct taccaacagc tgggttgggg gctgggttcc ctggtgttgt gtgttaccta 240  
 ccccttgggt tggcttgacc tctccttggt agctcacctg agccctccca gggccagggt 300  
 cctgacagtg ttgggtttttg cacatccact ggaaagggtg cattaatgac ccagtgttag 360  
 aatgcaagag gtcagggttat tctagccctc atggctgaag gccagtcct ggctccacca 420  
 ctctccagc cagaggggtct ggaccatcca gtgcctgtcc tcgccacagg gcctccaggg 480  
 agcattcggg tcaawtccat ggacaccctg ggctacaaac caaggctgct gntcatccca 540  
 catcgtgtgg ggcagtgtcc atcccctgca gctacttggg gacttaacaa ctycaggagc 600  
 cctgtcagct gccctcctcc acctaaaccc ctctgactct tctgctttga caaagaaaat 660  
 gacattgggg aggggagggtg ctccgcctcc cagcttttct caaaatagtc ctatagatac 720  
 tggtaatctg gaaatgaaga agtaattctg tctctgcacc tacttttgca gaatgttcaa 780  
 ggaagtattc tgtgttagta ttaatgcaa aaagttgttt ttaaagggtt tgtactcagc 840  
 acatcataca aaccacatta cttctgtcac ttcagggcac cgggactggc tggcgccctt 900  
 gttatgtgct attttaatca gtgtaacatt ggtcaagttg ttacccatgt atgctgtgtt 960  
 tatcatgtgt atatcgtcya gaaagtatta aggccttagg tagatgcaac tggcgaaacct 1020  
 tggagagggg atgctgattg tcttgaccaa acccacagcc tgtctcttct cttgttttagt 1080  
 tacttacggc aataaatcat ctatgagtta gtgcaccgtg a 1121

<210> 153  
 <211> 445  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (440)  
 <223> n equals a,t,g, or c

<400> 153  
 ttttcttgca tctgcccgcg atcttctccc agacctttct gcgagtacga gccaacccggc 60  
 agaccgcact gaatgctcgg attgggaaaa tgaaacggag gaagcaagat gaagggcaga 120  
 gggaaggctc ctgcatggct gaggatgatg ctgtggacat cgagcatgag aacaacaacc 180  
 gctttgagga gtatgagtgg tgtggacaga agcggatacg ggccaccact ctctggaag 240  
 gtggyttccg aggctctggc ttcatcatgt gcagcggcaa agagaacccg gacagtgatg 300  
 ctgacttgga tgtggatggg gatgacactc tggagtatgg ggaagccaca atacacagag 360  
 gctgatgttc atcccctgca caggcgagga gctgggtgaa gccaaaggaga gagaggcatt 420  
 tcggggcgca ttcttaaatn gccgg 445

<210> 154

<211> 798  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (638)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (665)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (698)  
<223> n equals a,t,g, or c

<400> 154  
agctcttaga caggtacaga gaactacaac ttagtacaga aagcaaagta acagaatttc 60  
tccatcaaag taaattaaaa tcttttgaaa gtgagcgtgt tcaacttctg caagaggaaa 120  
cagcaagaaa tctcacacag tgtcaattgg aatgtgaaaa atatcagaaa aaattggagg 180  
ttttaaccaa agaattttat rgtctccaag cctcttctga aaaacgcatt actgaacttc 240  
aagcacagaa ctacagagcat caagcaaggc tagacattta tgagaaactg gaaaaagagc 300  
ttgatgaaat aataatgcaa actgcagaaa ttgaaaatga agatgaggct gaaagggttc 360  
ttttttccta cggtatggt gctaattgtt ccacaacagc caaaagacga ctaaagcaaa 420  
gtgttcactt ggcaagaaga gtgcttcaat tagaaaaaca aaactcgctg atttttaaag 480  
atctggaaca tcgaaaggac caagtaacac agctttcacm agagcttgac agagccaatt 540  
cgctattaaa ccagactcaa cagccttaca ggtatctcat tgaatcagtg cgtcagagag 600  
attctaagat tgattcactg acggaatcta ttgcacanct tggagaaaagg atgtcagcaa 660  
cttanaataa agaaaagtca gctttactac agacggangg aatcaaaaatg gcattaggat 720  
ttaggaccaa cttctaaatc atccgtgaag gaaatttggc aagcaaataa aaaccagatt 780  
cctcggttaa gatgcatt 798

<210> 155  
<211> 400  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (74)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (379)  
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (383)

<223> n equals a,t,g, or c

<400> 155

```

ggaatctgga agcctgactt tgccccccagg gaagttgggg accgccttcc ctcccttctc 60
cacctctcac tctnggcacc ctctccaatt gcactaaagt agctgttgtg ccagtctgcc 120
ccccacaagg ggggaggtct ctgcttycag tcttcttccc ccgctgcctc cgctmccacc 180
ctggacaatc tccttgtttc ccttggtgtc mtggayagct cagctttgta tgtgtgtttg 240
gggggtgggg gtgggttctg gcttgagtgg gtttggcagg ggtttgggaa gggttagggg 300
aggatggagg atgaagtctc ctacccctt ctccagctcc aggccacaga agcctgggaa 360
agggaggggtg cctactctng gtngctagtg tgtctttgca 400

```

<210> 156

<211> 1757

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (596)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (647)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (648)

<223> n equals a,t,g, or c

<400> 156

```

gccagccacc attttatctc tctaaagtct ggtcccagta ttaaacctat tcttttagtaa 60
actcatatta ctgttctaaa ttgaagaaat tatttattac tctgtacttc tagactcaaa 120
attctttatc aaagatagtc tcaaagaggt agtacaagtc ctgtttaact gcactttttc 180
acattcacag tgcttcctct gatattcttc cttacatcat tatacactgt tgatatcatt 240
ttactcttct ttctcttcta catttcttaa attttggttc ttttcctgta catgtgtttt 300
agcggggccc ttttctttga actttgtcta attagcctgt acatttttgt ttcttttaag 360
gtagaacaga tctttttttg tttctccttt taagtctact ggtttttaaaa gaggtaaatg 420
tatccataga ccacagtgcc ttgctttttc ctctgccagc acatggagca cgggattaga 480
tgcacaaacc tatttaggga actatttttg tagatgtttg agtttataca gaaattgcag 540
ctgggtatttt attttgctgt acatttactc aacttgtcca ttagtattta actatntcca 600
gagtttgttt aggagtaaga attgacccat tcgttagttt accatanntt ttcctgggtat 660
aaaaaggagc cagaaataag ccttattgct aaataattaa ttatgtaagc ccacctaggt 720
cctgcataag atcccccctca catacttcac aatatatatg tgtgtgtgtg tgtgtgtgtg 780
tgtgtgtgtg tgtgtgtgtg tgtgtatktg gctaaaaaat tatactgcca aaattactga 840
ttataaatac ttgactacac tgattgatgg gacaaaatga ttaaagtatt ttcagggatc 900
ttattccata tgtcaccacc aaagatttct acagtgttat aaagtatata aatattccaa 960
atttctgtgg ttaaataattt ttttcttttt tttccttttt tagaataaca cagtctgtgc 1020

```



```

tttccaaaaa tgcttgaact tttatgttgt taagaaatat ataatgatat cttacattaa 1080
gcatgagtct aatttgtatt aattgggatg gactaaattt tcatttgatt atcaggaaaa 1140
ttaaggagtt atatatattaa aagcaatttt ctgtgttttc ttctttgtaa gttgactcat 1200
ttgtgaagca attagcaciaa ttttgagaag atcattgtta ttgtggtttg cagtatatat 1260
ttcttagtaa atatcactta agattaaatt tttcagaaag aaaattatag cttttttccc 1320
aaaatatttt taagatttaa tctttttgta gtatgctaca gatttaatta tattaactct 1380
tttttaagac attgaccatg acttaacatt ttgccttcta acacctttta aatctatgta 1440
ctttaatagt taagagaaaa taagtttgca gatttttaat aatctgtttg taaaaggcta 1500
tctctaagcc tagtatgtgg gtaattttac aggtgtgttt ttgataact ttaataataa 1560
ataaactcat tttatttgtg gcaattcgcg tttctttttt tatgccagag tacatatgtt 1620
ggattccatg aattgggtatt acttattatt atgtgttgat taaatatatg cacacactta 1680
ggattacaga tcacagagca aattatgaaa atcataaaca ttctggtatg gtcattcata 1740
ggattatgaa aaagaaa
1757

```

&lt;210&gt; 157

&lt;211&gt; 1245

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1245)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 157

```

gaaagccctg aatgttgtac aaagtgtttt gcaaatcaac ttaagcaatt ctacaaacag 60
aggatcagta gctgctaaga aatttaagga catcatacat tatgatccaa cgaagcaaga 120
ccatgccact tacgaaagaa aaagagatga taagccaaaa gaaagtaaag caaaacgaaa 180
aaagaaaagg gaggaagctg agaaactacc tgagggtgtc aaagaaatgt attataatat 240
tgctatggat ctgaaagaaa tattccaaac taaaaaatat accagtgaaa aggaagaggg 300
cacaccctgg aatgaggact gtggtaaaga gaaacctgag gaaatccagg accctgcagc 360
tctgaccagt gacgctgagc agcccagcgg gtacacgttc tctttttttg attcagacac 420
taaagacata aaggaagaga cctacagagt tgaaacagtg aaacctggaa agattgtctg 480
gcaggaagac cctcgttttac aagacagcag ttcagaagar gaagatgtta ctgaagaaac 540
agatcacaga aactccagtc ctggagaagc atcattactt gagaaagaga ccactagatt 600
tttctttttc tctaagaatg atgaacgact tcaaggttct gacttattct ggagaggagt 660
aggaagtaat atgagcagga actcttgagg ggccagaaca accaacctgc gtatggattg 720
tcgaaagaaa cataaagacg caaaaaggaa aatgaaacca aaataataaa tgtcagctgg 780
ttttgatact gaatgtgaac aaggctcacc taaggaaact gaccagaaa acagtttttag 840
ctgacaaaaga agaaatttca gagtgaagga attttaaaaa tctggctgac ggaatatcat 900
tctggttgcc atctttttct gtggaactcc tctgcatttc ttcctaagta attacttcaa 960
aaattaaatt caacttctta taaaggaaga acaagatagt ccttgaaaat actttttgta 1020
tataatctct ttgccctcta tcctgagtaa ctaatggaca tcttctcatg caaggtttay 1080
atgaagcctt tttwaataaa tgagtcaaag cacttgtatt ttccagccta ggctttgtgt 1140
gaattatagg ctatttgaaa ttttatttct gattatgtca aatacacctt ccgattttgt 1200
catttttgtt taaactgata aattacaagt caacattgag ttttn
1245

```

&lt;210&gt; 158

&lt;211&gt; 379

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<220>

<221> misc feature

<222> (375)

<223> n equals a,t,g, or c

<400> 158

```
gtgagctgag accatgccac tgtactccag cctgggcaat agagcgagat tctgtctccc 60
aaaaaaaaaca aaaaacaaca acaaaacttg ctaccaccca gggattttct gctattttaa 120
aggtgaattt cttttctggt actaaactgt agctgcttaa cttagtaaag gctgtgtttg 180
gccaggcctg tgccagaggt cacctggagt gctccacca ctggcaggca agtcctattc 240
ctattcaccc aggatcccca aggctgggct gggatataaa tgttgggata ggaaagaaat 300
atttcctttt tagaggaaag caagaagaaa cattgcctga aagtgattty ctagtcattt 360
ccattagtac agaangtta                                     379
```

<210> 159

<211> 474

<212> DNA

<213> Homo sapiens

<400> 159

```
ctttatcata ttttacaaat gtgtgagtct gctatggatt agaaattaat aagagatttk 60
gccacagata gtttgagaag cccagcactg ccactcaaca aatgctggtg cattcagatg 120
gtgaaatatt ctgcagctat taaaggagtt aaaactgcct ccacttacct ggaggcccat 180
ctgtgacacc tttttagggt aaaaggaaaa gaaaaacttg cttaggactg aatatgagcg 240
gttgcaattt gtaacaatga tgtatatata catatacatt ttcattgtatt tgtatgaaca 300
taaaagtatt gaaggatatt catcaaactg ctaaaagggt tgcttcagag taacggactc 360
ggagaaggca gattaatttt ctcttaatgg aactctgtat tgtatcactt gtaaaaaataa 420
gcatgtgtta tctttatgat aaaaaagtaa aaacctaaaa aaaaaaaaaa aaac 474
```

<210> 160

<211> 1444

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1373)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1425)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1430)

<223> n equals a,t,g, or c

<400> 160

```
gggnntagac accttagaga ttcagcagca agccctgcta agagagcagc agaagaggct 60
gaacagaata aaaatgcagg aaggtgccaa agttgactta gatgccatcc caagtgctaa 120
agtacgagag caaagaatgc ccagagatga cactagtgat ttcttgaaaa actcattatt 180
ggaatctgat agtgctttta ttggggctta cggtagagaca tatectgcca ttgaagatga 240
cgctccctcc ccaccatcac agttgccctc tgcacgggag cgcaggagga acaaatggaa 300
aggactagac attgatagca gtcgtcctaa tgtagcacca gatgggtctct ctctaaaatc 360
tatatccagt gtaaagtgtg atgagcttag agtgagaaat gaggaacgaa tgcgaagact 420
gaatgaattt cacaataaac ctattaatac agatgatgag agttcactgg ttgaccctga 480
tgacatcatg aaacacatag gggatgacgg atcaaactct gtagcaactg agccctggct 540
ccgccctggc acttcagaaa cgctgaaacy ttctcatggca gagcagctga accaggagca 600
gcagcagatt cctggaaaac caggcacttt cacttggcag ggcctgtcga ctgcacatgg 660
ttaaaataaa cctgtactgg acccagtagt gccttttaag gtgaaaggaa tggtaaactc 720
gtacctttta tatgtcctac ttttggcccc tacttgaaag ttactttttt tccatcatct 780
gtatataaaa ttatttttat catgatgtat attatgtaca taaataaaaag gccatgatta 840
ttgatttata taatagaatt gtatagatta tttttgcaca gttttgtcat aaattaggg 900
ggtaatgaac tggattgaac tactatatgt gcattatatt gaattctgct tgtcattaag 960
ataaggtgaa taagtgtctt aaacgtcctg taaaaccgga ctccccttg ttacatgcac 1020
attttccatt gttacctcga tgcaaaagaa ttcatttagt aggtacatct attgtagctg 1080
tgattattcc agtttctgtg tgatgcaatc aaatgtccta ttaattaatt attatttcat 1140
gtcatttgta gctactgata cagcagaaat gaagggaact gtaattactt gtatttttgt 1200
aagccatacg ttaaagtgtt gttacatcat ctttctgctt ctatttttat gccaatgaag 1260
gcatttgtct tgttactaat tacatgatgt aactacttct tgatataaat aaatttttat 1320
tttaattact aaaatctttt taactactat ggagctttct agactagttt tcnagagggt 1380
gaatagaggt ggggacaccc ggggagtcaa ggacagagga gactnggagn cttccttctt 1440
ccca
```

<210> 161

<211> 449

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (268)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (269)

<223> n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (368)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 161

```

aattcggcac gagttggaat gtgagatggt ggttgagagt caggatctct tttaaaagtg 60
atcttgagca agttatttaa actttctaata tatcagtttc tttatctgta aaatggaggt 120
aatgggaata cttacctcaa attgctgaga gaattaaatg aaataattct gcaagatagt 180
tatcacagta aagcagtaaa tgctccattc aggggtaccat tactattgac tgccttaaaa 240
atttaattct ctagccaggt gcgaaaannc atgcttgtaa tctcaacact tttggaggcc 300
gaggtgagat gatcatcttg agcccgagag ttcaaggatt aaccagagta acatagcagg 360
gatcttgnet ctattttttt aaaaaagtca ccttgtaaca ctggtgaatt ggataaggag 420
caattcagat gtagcgaatt ttaataatg                               449

```

&lt;210&gt; 162

&lt;211&gt; 573

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 162

```

cccaccctga aagccctgag ctttctgcta tcaaagaggt tttaaaaaaa tcccatttaa 60
aaaaaatccc ttacctcggt gccttctctt tttatttagg ttccttgagt tgattcagct 120
ctgcaagaat tgaagcagga ctaaatgtct agttgtaaca ccatgattaa ccacttcagc 180
tgacttttct gtccgagctt tgaaaattca gtggtgtagg tgggtaccca gttagctctc 240
aagttatcag ggtattccag agtggggata tgatttaaata cagccgtgta accatggacc 300
caaaatttac cagaccacaa aacttttcta atactctacc ctcttagaaa aaccaccacc 360
atcaccagac aggtgcgaaa ggatgaaagt gaccatgttt tgtttacggg tttccagggt 420
taagctgtta ctgtcttcag taagccgtga ttttcattgc tgggcttggt tgtagatttt 480
aggacccwat gctgcttgag rcaactcatc ttaggggtggc aaaaaggcag grtgcccggt 540
cgcgtggtca mgsctgtaat cctagcactt ggg                               573

```

&lt;210&gt; 163

&lt;211&gt; 1037

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 163

```

aattcggcac gagctgtctg cgaagtggcc cttgattaca aaaagaagaa acacaccta 60
acactttatc tccaagttac aaaagttagg ggtgcagagg gaaggccaga tttttttttt 120
aatgaaatta tatagattag atctcagtat ttaaactgtt cctcaatttt gtgaggctgt 180
gttggaataa accgcctct agtgctgttg gtatgcaagg cagcgtgtgt taatcaatat 240
ttcctgtgct caccagaggc aaaatgtacc aatatcctga caccattctc tctccattta 300
cttctggtgg ttacctgac tcttgactct tagaagtgcc cgagatgggg ctaaccttta 360
ttaaacagat cgcattattat gatcttgctg cagccacagt gcagctccac attaaactta 420
cagaccaaac catttgatc tggcatcact tactaacaca cgacatgcgg cttttctgca 480
tcaactgcta tgacggttaa gaatgtcagt atacaagaag gaatagaaaa ctgatactgt 540
tttaaataat ctgtaatttc aatttttttt tttttttgct gaaatacatt atattgtacg 600
tttgagataa ttctagtaca aagtataata aaactagatg tataataaac cctttaaatc 660
attggtaagt gtacaagtgg tggaaactgaa gcatttactg gacaaagtaa tgttactcta 720
atggttactt gctcgtgctg tgccacactg tgttataatt tgcttcattt ccttgctatt 780

```

94

```

tgatacatag tgtgcatttc tctgtcactg taactattgt aatgacaaat tttcatctta 840
ctgcacaatc aaaatgacat tgataggaat gaactccaga ggctgggcct gaacaggag 900
gtggtcgctc aggccctgggtg ctcagtcgta cgacctgtac ctctcaactt ttgccctatc 960
tgttaaatat atgctatgtc attaaatgct tttaaatcta aaaaaaaaaa aaaaaaaaaa 1020
aacggggggg ggccccgg                                     1037

```

```

<210> 164
<211> 921
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (881)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (908)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (913)
<223> n equals a,t,g, or c

```

```

<400> 164
ccccccccc ccttgtggac agctgtgtta ataaggccaa ttttctgaga atgtgggaaa 60
gattaaaata ttaactggtt tatctttcac agagtagcag tagctctgat taagcctata 120
ggcaattaaa agtagtttgt ctgtaaaaag agggaaagaa ataagatttc ttacccatt 180
ttatggactt ttaaaaatta aaaaactgcg cccccccca ggagctcttt tcttatgaca 240
tataaattat gacatttata ttctttatat gactttatgt tctcttctta tgacatttaa 300
attctttaag tagtttggtg gtccaataaa ctagacgttg tataatctaa attgagccct 360
tgtatatcta aaactgatga gttgtttcta aattgttgat tgtccattta cttgcctttg 420
gtattaagat aatgcaagta aagtttagta agtcattgga taatgaaatg attatgtttc 480
tgaagaccat attatatatt taatttttag aggaatcatg ccatcccca aaaaatcaag 540
aaatatttga attttaaatt ataagttcat ttgttaaag acatttttac aaatgtctga 600
aaatcttaaa atactttaca tctacctta agtagtagaa tacagagctg taaatttcca 660
tgcctttttt cctgatatta agttttatag taaaaaagca actagtatt gcacaaagaa 720
tataaaaatc caytcttttt acaaaggtgt gaatttaa atcggttatt attggaatat 780
gaaaataaac caatcattta agagcttttt agcaaatgat ccaattctta ctctttttct 840
cccaagattg gaaaagcata atgtttttcc tcctaaagtt nggaatccta gaaaagcccc 900
ggtgagtnng acnaatgttc c                                     921

```

```

<210> 165
<211> 465
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature

```

<222> (428)

<223> n equals a,t,g, or c

<400> 165

```

aattcggcct cacagagatc atcatcttta ccaccttcaa atcgtaaato aagtactcca 60
aaaaaaactt attctgagaa agccaccgat aaccatgtta atcatagctc ttgccctgaa 120
ccggtgccaa atggagttaa gaaagtatct gtgagaacag cctgggagaa gaataaatca 180
gttagctatg aacagtgtaa gccggtttca gtcactccac aggggaatga ttttgaatat 240
acagcaaaaa ttcggaccct agctgaaaca gaacgatttt ttgatgaact tacaaaagaa 300
aaggaccaga ttgaggcagc actaagcagg atgccttctc ctggaggacg ratcacttta 360
cagamraggt taaatcagga agccttggaa gatcgtttgg aaggattaat cgagaactgg 420
ggttcagntc gcatgacgct aaagaattcc atgttttgcg cacct 465

```

<210> 166

<211> 752

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (651)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (662)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (684)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (693)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (700)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (711)

<223> n equals a,t,g, or c

<400> 166

```

gtggaaaactt tttccatcct gttttctctg ctatatctgt cagcccccat ytccaccwac 60
atcagagaag acagcatcgt gaagcttctg tggcagcctc ctaaggaagg ggctgccaat 120

```

```

ctgtagttgg cagatgctat aggaattgct tacaaatgtc gtctttaaga aaaatgttct 180
tatatTTTTc ctatgggcaa aatgaaggct tgggtgctca tctaaagctc agccaactcc 240
tgaagcactc tctcagagca tactgctgct gtaatgggct ggcttaatta tcggcagagt 300
gcttgaaaag gctttgcaga cctcccctgc ccccaagact gggtgacttt atatgtactt 360
cattcaaggg taaatcaggg agacgttctc catttatctc ttcgtccttc ctgcctggga 420
aagtgatagc actaaatatt tcccagcagg atggggtagt gtttctcaaa ggaatcacc 480
tttccctacc ttcagactca ttctttaccc ttccattgst ccagtgtga tggaggccaa 540
agacaacccc aggggttttca taggaaattc actggaattg tgcgcaattg tctttgtagt 600
ccttttgcct tttttttttt taaatattta tgttggcaat agcatttgtt ngggatattt 660
gntttaaaag gcctcactct aagntattac cgccccctn attggttttt naaagacatg 720
tggggggata tagtttttaa aaaataaacg ta 752

```

<210> 167

<211> 1631

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (255)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1620)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1630)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1631)

<223> n equals a,t,g, or c

<400> 167

```

tccagagatg ttctctgtcc tccccgggtc ccacttgctg ytcaataacc ctgccctgga 60
gttcatcaaa tacgtgtgca aggtgctgtm cctggacacc aacatcacia accaggtgaa 120
taagctgaac cgagacctgc ttcgcctggg ggatgtcggc gagttctccg aggaggccca 180
gttccgagac cctgcccgtc cctacgtgct tcctgaggtc atctgccgca gctgtaactt 240
ctgccgcgac ctggnaacctg tgtaaagact cttccttctc agaggatggg gcggctcctgc 300
ctcagtggct ctgctccaac tgtcaggcgc cctacgactc ctctgccatc gagatgacgc 360
tggtggaagt tctacagaag aagctgatgg ccttcaccct gcaggacctg gtctgcctga 420
agtgccgcgg ggtgaaggag accagcatgc ctgtgtactg cagctgcgcg ggagacttcg 480
ccctsacat ccacacccag gtcttcatgg aacagatcgg aatattccgg aacattgccc 540
agcactacgg catgtcgta ctcctggaga ccctggagtg gctgctgcag aagaaccac 600
agctgggcca ttagccagcc ccgggccccg ggtgcctctg cgctccgtgcc aggcctcctg 660
atgccaaagg cacatccccg tgcctccagt gaccagacca ctgaccaccc tgactgtcca 720
aacctgtgac cccaggccag ggaacgggga ggaacccaaa gaaaaccatt ttcaggagac 780

```

```

tcagacgtca caggagggag cgggagcagg atgtggccct ggcctcgcca gagcacctga 840
agaagcaggc cgtgagcgag gctgcgagtg ccctgggcgc cgtttctcac gcatgaatgc 900
ttttccaggc ctctgttgct tcctgcacca cacctgggtg ggtgggagcg tcctctagtg 960
cccctagttc tttgtcctgc ctcccagagg gaggaaaaag cccctggggg cttctggctc 1020
cctgagattg ggctctgaga cgagacgggt tccaaggcc ctggtggggc tggagtctca 1080
cctgtttgca tggagaaatg ggctggcccc acagcctcac aggagcagtt tgtgggctgg 1140
tttcccragg aatccagacc ctaaccctg agaatctgga ttttggttg tgagccctgc 1200
ttatttgag cgggtctag agggaaccct ctatcagcct caggaaaaca agacctctgt 1260
gcacctcact tttggctcac tgcagccctt gtccttcacc tccacacagg accagctgga 1320
agcagaaaga agaaaggcca atttcacagg gcaccaaca agtatgaaat gtaaatcaga 1380
aatgcagaca cccagacga gagcctcaca ggaggagg gggccacag gctcccagg 1440
aggctcgtgt ctttgccca gagccagcct tagttgtcc ctgccatcta ctgtctgagg 1500
ccatcgctgc tacactttgt ttttatttgt atttcatact gaagtttcaa maaaaaaaaa 1560
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1620
aaaaaaaaaa n 1631

```

<210> 168

<211> 740

<212> DNA

<213> Homo sapiens

<400> 168

```

tttttgaatc ggttgtggcg gccgcggcga ggaatggcgg tatttgtgag aggagtcggc 60
gtttgaagag gtggaactcc tagggctttt ttgagagtgc tgatttagaa gaatacaaat 120
catggctgaa aatagtgtat taacatccac tactgggagg actagcttgg cagactcttc 180
catttttgat tctaaagtta ctgagatttc caaggaaaac ttacttattg gatctacttc 240
atatgtagaa gaagagatgc ctgagattga aacaagagt atattgggtc aagaagctgg 300
aaaacaagaa gaacttataa aagccttaaa ggacattaaa gtgggctttg taaagatgga 360
gtcagtggaa gaatttgaag gtttggaattc tccggaattt gaaatgtatt tgtagtcacg 420
gactttcagg attctgtctt taatgacctc tacaaggctg attgtagagt tattggacca 480
ccagttgtat taaattgttc acaaaaagga gagcctttgc cattttcatg tcgcccgttg 540
tattgtacaa gtatgatgaa tctagtacta tgctttactg gatttaggaa aaaagaagaa 600
ctagtcagggt tggtgacatt ggtccatcac awgggtggag ttattcgaaa agactttaat 660
tcaaaagkta cmcatttggt ggcaattgta cacaaggaga aaattcaggg ttgctgtgag 720
tctaggtact ccattatgag 740

```

<210> 169

<211> 2038

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1490)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1508)

<223> n equals a,t,g, or c



<220>  
 <221> misc feature  
 <222> (1979)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1992)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (2010)  
 <223> n equals a,t,g, or c

<400> 169  
 tcgacccacg acgtccggcg gcgggaagct ggcggcagcg gtcgggtggcg gtggetgagc 60  
 agaggacccg gcgggcggcc tcgcgggtca ggacacaatg tttgcacgag gactgaagag 120  
 gaaatgtgtt gccacagagg aagacgtgga gggagccctg gccggcttga agacagtgtc 180  
 ctcatacagc ctgcagcggc agtcgctcct ggacatgtct ctggtgaagt tgcagctttg 240  
 ccacatgctt gtggagccca atctgtgccc ctcatgctct attgccaaca cgggccggca 300  
 gatccaagag gagatgacgc aggatgggac gtggcgacac gtggcacccc aggctgcaga 360  
 gcgggcgcgc ytcgaccgct tgggtctccac ggagatcctg tgccgtgcag cgtgggggca 420  
 agagggggca catcctgtct ctggcttggg ggacggccac acacagggtc cagtttctga 480  
 cctttgccca gtcacctcag cacaggcacc aaggcacctg cagagcagcg cctgggagat 540  
 ggatggccct cgagaaaaca gaggaagctt tcacaagtca cttgatcaga tatttgaaac 600  
 gctggagact aaaaacccca gctgcatgga agagctgttc tcagacgtgg acagccccta 660  
 ctacgacctg gacacagtag tgacaggcat gatggggggg gccaggccgg gccctgcga 720  
 agggctcgag ggcttggctc cggccacccc rggccctagc tccagctgca agtccgacct 780  
 gggcgagctg gaccacgtgg tggagatcct ggtggagacc tgagcaggag ccctgagtgc 840  
 tcacagccgc ctctgacgca ttgacacgtg agcactggct cccacggagg gtgcgcctgc 900  
 cgccagcggc ccagccttgc tgccctgtct gctgattctg agaaatccca gaacagccca 960  
 ttaccagtgg ggctgcagcc taggcccgtc ccactcacct ccccccctgtg gagggccagg 1020  
 cagaggctgt tctggaaggc ttcttgtctt ctgacgtccc cacagccctg ggcccctcgt 1080  
 gtctctttgt gtccccact gtagaggacg gtgagccgca gctgcatcaa cctcctttta 1140  
 ccttttagata ggtgaatttt tacaattcag ttttacatgt tttgggcagt attttgtctt 1200  
 aagatatatt ttttaacctt tttatacctt atctcttttag attttttcag ctattttctt 1260  
 aaaagtatat tttttctata aacatccttt gctgctacat tagaactttt atagcctaaa 1320  
 caattgcagt tgggtgtgtt cattttttta aggtttaaat aagggttttt tgttttgttt 1380  
 tgttttttgc agtgagcatc actacagtct cagtcaacag tgtgaatgta tcatgtttta 1440  
 ctttaaatgt gtgtgtgata cttcttcatt atgtcctgcg ctgcagtgan gacctgggtg 1500  
 aaaatcangg aaccgcacac agccacatct tcctagacct aagagtaaat tatggaggat 1560  
 tttatttatg tctatttata tgtaaatgtc attgaagaca aagggtcaaat atttgtctgt 1620  
 ttgtagatca caggcaccag ttggtcttca gggacctcat agcccctcgg tgggtgccttc 1680  
 tcaaggcagt gtctctggag gctcccttca gggtcagccc atgcacctgc cctgrrtgag 1740  
 gaagtagcat tgctgctgga tgagaaacgc ctgcgctgct ctgttagact ggtgctgaaa 1800  
 caaaagggtta aggctaggtt gaagtctaga atgaagaaa tctgaatcca tgtcattcat 1860  
 aaccccttga tctgtagtgt catgggtgct gccgcagagg aagttgagct ggggggtgcct 1920  
 gccagccttt ccactcctgc ccgcttcaa cccaaatgct ccctgtttcc caagctttnc 1980  
 ccaaatttcc tnaaccttta accaaaaagn ggggtttcct ttggggcaaa aaggccat 2038

<210> 170  
 <211> 522  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (471)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (488)  
 <223> n equals a,t,g, or c

<400> 170  
 ggcacgaggt taatctaagg tgaagcaaac agaaaattgt ggaggttttg ttggtgtgca 60  
 actgaggaac atggctcaag aaactaatca cagccaagt cctatgcttt gttccactgg 120  
 ctgtggattt tatggaaacc ctctgacaaa tggcatgtgt tcagtatgct ataaagaaca 180  
 tcttcaaaga cagaatagta gtaatggtag aataagccca cctgcaacct ctgtcagtag 240  
 tctgtctgaa tctttaccag ttcaatgcac agatggcagt gtgccagaag ccagtcagc 300  
 attagrcctt acatcttcat ctatgcagcc cagccctgtw tcaaatcagt cacttttattc 360  
 agaatctgta gcatcttctc aattggacag tacatctgtg gacaaagcag tacctgaaac 420  
 agaagatgtg caggcttcag tatcagacac agcacagcag ccatctgaag ngcaaagcaa 480  
 gtctcttnaa aaaccgaaac aaaaaaaga atcgcttggt tt 522

<210> 171  
 <211> 1666  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (114)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1659)  
 <223> n equals a,t,g, or c

<400> 171  
 gagtccatct tccaccgcgg ccacgagcgc cttccgcatt gccagcgcct gcctggacga 60  
 gctgagctgc gagttmetgc tggctggggc cggaggggccc ggggcggggg ccgngccccg 120  
 gaccgcatct cccccacgg ggtcggtgcc tggggatcct gtccgcatcc actgcaacat 180  
 cacggagtca taccctgctg tgccccccat ctgggtcggtg gagtctgatg accctaactt 240  
 ggctgctgtc ttggagaggc tgggtggacat aaagaaaggg aatactctgc tattgcagca 300  
 tctgaagagg atcatctccg acctgtgtaa actctataac ctccctcagc atccagatgt 360  
 ggagatgctg gatcaaccct tgccagcaga gcagtgcaca caggaagacg tgtcttcaga 420  
 agatgaagat gaggagatgc ctgaggacac agaagactta gatcactatg aaatgaaaga 480  
 ggaagagcca gctgagggca agaaatctga agatgatggc attggaaaag aaaacttggc 540

## 100

```

catcctagag aaaattaaaa agaaccagag gcaagattac ttaaattggtg cagtgtcttg 600
ctcgggtgcag gccactgacc ggctgatgaa ggagctcagg gatataacc gatcacagag 660
tttcaaaggc ggaaactatg cagtogaact cgtgaatgac agtctgtatg attggaatgt 720
caaactcctc aaagttgacc aggacagcgc ttgacacaac gatctccaga tcctcaaaga 780
gaaagaagga gccgacttca ttctacttaa cttttccttt aaagataact ttccctttga 840
cccaccattt gtcaggggtt tgtctccagt cctctctgga gggatgttc tgggcggagg 900
ggccatctgc atggaacttc tcaccaaaca gggctggagc agtgcctact ccatagagtc 960
agtgatcatg cagatcagtg ccacactggg gaaggggaaa gcacgagtg agtttggagc 1020
caacaaatct caatacagtc tgacaagagc acagcagtc tacaagtcct tgggtgcagat 1080
ccacgaaaaa aacggctggg acacaccccc aaaagaagac ggctaaccct ggagtatcac 1140
ccttcctccc tccccaggca cactggacc aattacctt gaatgctgta tttggatctc 1200
acgctgcctc tgtgggtccc tccctcattt ttctggagc tgatagctct gcctattgca 1260
ggacaatgat ggctattcta aacgctaagg aaaaaaaca aacacagAAC tgtttcaagt 1320
actcaagact gacttacaga ccaaccaacc accttgctgg aacccttgct agcaggcatt 1380
cttataaaag aaactttcga gcctccttat attgctggaa actcagctgt gctccagact 1440
agagcctcct tacctatgct atggattttt aatttatttt ctcttatttc atgtacactg 1500
cttttttttg ttacagtgtg tgatggatgt gtatgaaaaa aatgtatctt tgggaaaaca 1560
attacagttt gttaatttga aaaaaaactc gtgccgaatt caagcagccc gggggatcca 1620
ctagttctag agcggccgcc accgcggtgg agggccagnt tttgta 1666

```

&lt;210&gt; 172

&lt;211&gt; 438

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (413)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (438)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 172

```

gcggaggagg tgtatgccca gctgcaaaaa atgcttcttg agcaacaaga gaagtgcctg 60
ctgttctcca agcagttcat gcaccagggc aacgtggctg agaccaccg atttgagaag 120
cttgctcagg accgcaagaa acagctggag atcctgcagc tggcccaggc tcagggcctc 180
macctcccca cccaccactt tgagttgaag acattccasa ctgtgaggat cttctcaca 240
ctcaacagca cagaaatgca tctgatcatt gtccggggaa tgaacctccc agcccccca 300
ggggtgactc ccgatgacct ggatgctttt gtgcgggttg agtttacta ccctgactcg 360
gaccaagctc aaaaaagcaa aacagctgtg gtgaacaaca caaactctcc cantttgatc 420
actcttcaac taaactcn 438

```

&lt;210&gt; 173

&lt;211&gt; 2511

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

## 101

<221> misc feature  
 <222> (12)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (28)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (44)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (2456)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (2488)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (2511)  
 <223> n equals a,t,g, or c

<400> 173  
 gtaccattcc cngaccgctt ggcctgtncg attaatccgc ccnatagga attggccccg 60  
 gccagattcg gccgagcaag cggaacctct gggaaaagca atctgtggat aaggctcaatt 120  
 cccccactaa ggtttgagac agttccagaa agaaccgaag ctcaagacgc aggacgagct 180  
 cagttgtaga gggctaattc gctctgtttt gtatttatgt tgatttacta aattgggttc 240  
 attatctttt atttttcaat atcccagtaa acccatgtat attatcacta tatttaataa 300  
 tcacagtcta gagatgttca tggtaaaagt actgcctttg cacaggagcc tgtttctaaa 360  
 gaaacccatg ctgtgaaata gagacttttc tactgatcat cataactctg tatctgagca 420  
 gtgataccaa ccacatctga agtcaacaga agatccaagt ttaaaattgc ctgcggaatg 480  
 tgtgcagtat ctagaaaaat gaaccgtagt ttttggtttt ttaaatacag aagtcatggt 540  
 gtttctgcac ttataataa agcatggaag aaattatctt agtaggcaat tgtaacactt 600  
 tttgaaagta acccatttca gatttgaaat actgcaataa tggttgtctt taaaaaaaaa 660  
 aaagaaatgt actgttaagg tattactttt tttcatgctg atgattcata tctaaattac 720  
 attattatgt tagctgacag tggtagtgat tttttagggt gggtgttttg tggatttctt 780  
 tagtagtgat agtagcctga accacatttt agataactca attatgtatg tatgtgcata 840  
 cacatatata aacacactaa tggtagaatg cttttttatg tgctagacta ttatathtag 900  
 tagtatgtca ttgtaactag ccaatatcac agcttttgaa aaattaaaaa atcacactat 960  
 attaatattt catatttgcc aacagaaaca tggcagatag gtatcaatat gttttcaatg 1020  
 cctgatgacc tataagaaga aagtattgaa aagaagagag attagaactg ttagaaggag 1080  
 ttgaaaattt ctaaaagaca tagtatttag ttataatta aatgcattct tgaagtccag 1140  
 tgtgaaattt attaatgcta tcatctcgac caagctcaaa gcctacttat tagaaacaat 1200  
 gaagttcaca ataggtcata aggtctcttc cttttctaaa attgaaagac aagaaattta 1260

102

```

gtgccaatat tgtacagaca gaaattccat gtatgagtct caacaaagac tacctttggc 1320
taaattgtcta gaagcagaga agtaaagtga gcaaaatcca gtgttgagga gtcattgacag 1380
tacttttgatc tttatatact ctgaagcatt tottcaaact tttctacttt tattttgtcat 1440
tgatacctgt agtaagttga caatgtgggtg aaattttcaa attatatgtta actttctacta 1500
gtttttacttt cccccccaag tcttttttaa ctcattgattt ttacacacac aatccagaac 1560
ttattatata gcctctaagt ctttattctt cacagtagat aatgaaagag tcctccagtgt 1620
tcttgccaaa atgtttctagt atagctggat acatacagtg gagttctata aactcataacc 1680
tcagtggact taaccaaaat tgtgttagtc tcaattccta ccacactgag ggagcctccc 1740
aaataactat tttcttatct gcagtattcc tccagaagag ctaaccaggg cagggctggc 1800
atgagaagtg acatctgcgt tacaaagtct atcttctctc taagtctgta aagagcaatt 1860
gaatcttcta gcttttagca acctaagcca aaggaaggaa agccacgaag aatgcagaag 1920
tcaaaccttc atgacaaagt aggcacaagt ctacaataag ctaaatcaga atttataaat 1980
acaagtgtcc caggtagcat tgactcccggt cattggagtg aaatggatca aagtttgaat 2040
taaggcctat ggtaaggtaa cattgctttg ttgtactttt gaacaagagc tcctcctgat 2100
cactattaca tttttttcta gaaaatctaa agttcagaag agaattgtatc actgctgact 2160
tttattccaa tttttggatg gagtaagttt tagggtagaa ttttgttcag tttggattta 2220
atcttttgaa aagtaaattc cttgtttact ggtttgacta taattctctg ttatctttac 2280
gaggtaaaac tgcaagctga ctagcatgtt ctgtgaatct gccattccta aaaattttat 2340
aaacacttga tacttttcac tgataatgga tcgctccaat aaacatatat tgtgaaaatg 2400
catccacaat aaatggaatt cttcctgca aaaaaaaaaa aaaaaagggc ggccgntcta 2460
gaggatccag gcttacgtac gcgtgccngc gacgtccata gccccttcta n 2511

```

&lt;210&gt; 174

&lt;211&gt; 230

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (4)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (19)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (227)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 174

```

tccttcccag tgggtactnt actaaattgt tgtcttgttt ttatttttta aataaaactga 60
caaatgacaa aatggtgagc ttatgatgtt tacataaaag ttctataagc tgtgtatata 120
gttttttatg taaaatatta aaagactatg atgatgacat ttaaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaanggg 230

```

&lt;210&gt; 175

&lt;211&gt; 1191

&lt;212&gt; DNA

103

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (44)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 175

```

ggcagagcgg caccagatgt gagccaccat gcctgggtgt ctcnttcatt ctttaggcag 60
ttcattgtca cttccttcca ttggtaaaca tgtaaattat agtcgcatga tttagaat 120
tactgaccaa agtcataata atagttaaca gtacaaggaa ctattttkgt ataatgggtt 180
atttaataca gtatacatta tctttcatat actttgttac aatgttaaaa aaacttcatt 240
tttcataata taggaaataa agttggaaac aactctgggtg ggaatacttc agatagagca 300
agaaaagcatt cacagcaagg cctataatca gtaagatgtg tgaaaagttg ggtagccaca 360
ggaggtgttc attaaggata tgattccatt tatatagcta tttctattgc ataaccagga 420
cagtttttatt gttttgaggt caatgttctt ttaaaatttg attttctgta agaagaggct 480
ttttggccca gaaagcctta cttattttac awcttccagt ttgtccatcc catgagttag 540
agttcgtctt gactctgcaa gctagaatca aagaattatg aaagtaagat catttagatt 600
tgaccaaggg caccattaaa tgggtgtcagg ttttaggaag cagacgggtg tataaaaaga 660
aaatgaacaa agatttcact tattggggat caggcataac tggatgcctg gattgtcctg 720
ccaccagct gccaccaata aaatcattca tcaactctgca agagggacca gatgcttcca 780
tcatcagtac tccttgtttt tctgttatct cctttgaggt agctaaaaat ggcagccaaa 840
aaaaaatggt gaggtctttt tcaagtatat actcatgtta ttttgagaa gataggggtca 900
ayttcttcag ttgagttatc tgaaagtgtt gggcagtgac accatgccaa acactgttaa 960
attcatgcca ttaaaaacag tggagtgttc tgcaaagccc gattctctgc agctttaaga 1020
ctggacagta ttgaaatatt cacaggaatc ttccaagccg tgaaagctta atattaaaca 1080
gcccttttaa ttgcaaagga gaaaaaatg gagacacttg tgaaaccttg cattctgagt 1140
gctgccacaa ataaattaag gaattccaga atttcttcat ctacttctgc a 1191

```

&lt;210&gt; 176

&lt;211&gt; 1499

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1462)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1476)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1495)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 176

```

gccttctccc gcctccctcg gccttagcca tggcgagtag cggcggtgct ggggcggcgg 60

```

```

cggcggccgc ggcggcgaat ctgaatgcgg tgcgggagac catggamggc tgctgaaaat 120
atgacaagct gactttctgg agaaattctg atgagatatg tcaagctctg caagrpggtt 180
tgaagattgc attgtagttg agaatgtaca wtgaaattwc tgcattgcagc agttagagaa 240
aattttmctt tttaaaagaa ttataaaacc atagctttat aaatcagtgg aaagtggctt 300
acagagagaa ctatcagatg tgtttacatc acatcttatt cacttttttt aacagctcta 360
atgctttggc attgctatgk tcatatttat gtattcctta tttatagctc tgatagcttt 420
aattttctaa gcagtctgtc tatcagatgt gcacatctgc tgtgccaggt tgaagtatat 480
tggaacccat cagtagtaat gtgtagtagt tatgacttgt tgacatttcc attataaact 540
ttaattttga attgtttatg cattataact gtggatttat attgtattgg gctgaagttg 600
acaggatttc agccaccact tgtgaatttt tatttagatt cattatgtat atcagaatct 660
tgttttttga aataagagca tggaaaacat ttcttgtaat ctactcttga acaaagaata 720
tttagttttt caaacagttt gttgggcagc taatagtgtg aaccaggtca tttttgtatt 780
gagtaaaaaa atcaaacttt gagaaacttg gattttaaaa gtaatgacaa tgcttaggtt 840
agtattttt gtaatttgaa tcatttacat ctaatgagaa tgttagttga gaatgttttc 900
ttaagtttt atattctata aataacggaa taaaaaaatt tgtaaaatga aacaacaaac 960
atgcaaaatt cctattttact tttattacat aaaagtaatt ttagtgctta cctaataaat 1020
cttgaatggt tatttaataa attattagat gggtagatgt tttcaaaaga tacttgctat 1080
tttttgaaga aataagggat ttccagtcac taaacaaaac taaacaatct tattagaggg 1140
tgatgtgttt caaaggatac ttgctatttt ttgaagaaat aaggattcca gtcattaaac 1200
aaaactaaac aatcaaatgt tctatattag gaatctcaag tatggctttt tttaaaaaac 1260
ctttttaaca tcttgatgtc aaggattata agtatggctt ttcagaattg ttttgtttgt 1320
cattattctt gcctttaaaa ttttaactca tcaaagtga gattagaaat aaattttagg 1380
aaaatgtagg aatagtattg attctgtccc tgtaatagga atctcagtgg ggtttttttg 1440
caaaactaat atgggtttcc anctgatttt aagtanttc ttgaaatttt tgggnttta 1499

```

<210> 177

<211> 1538

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (50)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (727)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1218)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1487)

<223> n equals a,t,g, or c

<400> 177

```

tgtaccggga cctgcagccc gtgggctcgg gcgcctacgg cgcggtgtgn tcgtccgtgg 60
acggcgccacc gscgctaagg tggccatcaa gaakctgtat cgkcccttcc agtccgagct 120
gttcgccaag cgcgcctacc gcgagctcgg cctgctcaag cacatgcgcc acgagaacgt 180
gatcggkctg ctggacgtat tcactcctga tgagaccctg gatgacttca cggactttta 240
cctgggtgatg ccgttcatgg gcaccgacct gggcaagctc atgaaacatg rgaagctagg 300
cgaggaccgg atccagttcc tcgtgtacca gatgstgaag ggggtgaggt atatccacgc 360
tgccggcatc atccacagag acctgaagcc cggyaacctg gctgtgaacg aagactgtga 420
gctgaagatc ctggacttgc gcctggccag gcaggcagac agtgagatga ctgggtacgt 480
ggtgacccgg tggtagccgg ctcccagggt catcttgaat tggatgcgct acacgcagac 540
ggtagacatc tggtagcgtg gctgcatcat ggcggagatg atcacaggca agacgctgtt 600
caagggcagc gaccacctgg accagctgaa ggagatcatg aaggtgacgg ggacgcctcc 660
ggctgagttt gtgcagcggc tgcagagcga tgaggccaag aactacatga agggcctccc 720
cgaattngka gaagaaggat tttgcctcta tcctgaccaa tgcaagccct ctggctgtga 780
acctcctgga gaagatgctg gtgctggacg cggagcagcg ggtgacggca ggcgagggcg 840
tggcccatcc ctacttcgag tccctgcacg acacggaaga tgagccccag gtccagaagt 900
atgatgactc ctttgacgac gttgaccgca cactggatga atggaagcgt gttacttaca 960
aagaggtgct cagcttcaag cctccccggc agctgggggc caggggtctcc aaggagacgc 1020
ctctgtgaag atctctgggc tccggggtgg cagtgaggac caccttcacc ttccacctga 1080
gaggggactc tcgttgccac cttgaccttg gctggggctt gcattccaag gcattccatc 1140
gagcagacgc ccgggttcca tggaccctcc tccccacggc catgcctctg ctcttggggc 1200
cccatcatgg aggagcanct gaactttctg gacaagacct ctggccgacc tggggatggc 1260
ctctgatycc tggagcagtg gccacttgc ccggtgctct cagaaacctc agagctggtg 1320
gggctccaga tcagccttgg cctctgagcc ctgcctgctc tgggcatgc agaggaagga 1380
cagaggtgg gcgcagggca ccaactcagg gacatccctc ctctggggc acgtcagtg 1440
accttcctgc acccccagcc tggaatgtaa atcagctgtg tgggtgcncgc gtggctggaa 1500
ggaaatagac cctttttag ctccctgaaa aaaaaaaa 1538

```

<210> 178

<211> 896

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (194)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (825)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (828)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (831)

<223> n equals a,t,g, or c



106

&lt;400&gt; 178

```

ggacgcgtgg gctgcacctc accttgtcca cgtaccagcg caatacctgg ggtgacttct 60
tagaggccat actgcctctg gcagtgcagg ctgcaatgga agaaaatgtg gagtttcgga 120
ggggctctgcc ccgagacttc atggattaca tgggggcca gcattcagat tctaaggatc 180
cgggaaaaaa ccgntttcat ggagaagggtg cgggtcttgg ttgcccgcct gggacacttt 240
gctcctgttg atgctgtggc cgaccagcga gccaaagact tcattcacga ttctctgcc 300
cctgttttga ctgataggga gagggcacta agtgtttacg ggcttycaat tcgctgggag 360
gctggagaac ctgtaaacgt gggggcccag ttgacaacag aaacagaagt ccatatgctt 420
caggatggga tagctcggct ggtgggtgag gggggccatt tgtttctcta ttacacagt 480
gaaaactccc gtgtgtatca tctggaagaa cccaagtgtc tggaaatata ccccagcaa 540
gctgatgcca tggaaactgtt gcttggttct tatccagagt ttgtgagagt gggggacctg 600
ccctgtgaca gtgtggagga ccagctgtcc ttggcaacca cgttgtatga taaggggctg 660
ctgctcacta agatgcctct agccctaaat tagtttcttg ttgattgctg gaaacaaggc 720
agtagtgatt ctccgctgcc actgctaact tttttttttt ttttttttct cttaaactca 780
agttcttacc ttgataagca tcagtgtgct cacatttacc tttancantg ntcagtgtca 840
caaacctcgg aaggctctcta ggaagaacca tctcatctag gtacaaaagg gaaagg 896

```

&lt;210&gt; 179

&lt;211&gt; 568

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (67)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (469)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 179

```

ttatcttaga tttctagtta tttatatatt aactttttgt ttattcagaa tcattttcct 60
gtttgtngga atattttctaa gagccttggg aaaatctcga gtaaaatttt aaatgaaatt 120
tgtatagtgt tctgcctctt tccaaaggta tttctcaaaa ttgggaattg ttttattatt 180
gaagttgaat gacttcaggg gaactctaaa atgcaagatg ggaagcttct gtttggtttt 240
ttcctttccc tttggttaagg tcttttgctt cccatccctc tgaccacact ttgtgctgtc 300
tgttgtccag tctgctctcc kgatccctaa rgakgtttct tatctaggct gccatttatg 360
tgggtaaaag acaaggtaga aaatactctt ctgtatcttg tatcaagggt taatctaattg 420
tcttcacac tttgttttga ratattttgg aatgttatcm acaattatna tagatggagc 480
atgtatgtct taggtttggg gttaatgttt aacatgcatt atcttattca atcctcacag 540
cagtcataaa atgtagggtg tttagagg 568

```

&lt;210&gt; 180

&lt;211&gt; 428

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

<221> misc feature

<222> (405)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (413)

<223> n equals a,t,g, or c

<400> 180

```
aaacacctat ggaaataatt ttgttttttt ttttttaaaa aggaatgaga tcatgtcctt 60
tgcagggaca tggatgaagc tggaaccatt atcctcagca aactaacaga ggagcaggaa 120
accaaaccac acatgtttctc acttgtaagc ggaactgaac aatgagaaca cacggacaca 180
gggatgagat caacacacac tggggcctga tgcaggggcc gtagcgggga gagcatcagg 240
ataactagct aatgcatgtg gggccttaata cctaggtgat aggttgatag gtgcagcaaa 300
ccaccatggg acacgtttac ctatgtaaca aaccgcacat cctgcacttg tatccagaac 360
ttwaaatatt ttaaaaayct ttagagawtm caaaaaaaaaa ggtnnttcaa tgnntcccca 420
ttaaattg                                     428
```

<210> 181

<211> 2901

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<400> 181

```
agagaaagcn ttccattgaa aggtagatac tttgaggagt aaaaagactt ctttgaatgc 60
tggtaaacac cgcattttatt ttgtgtatgc agtttgattt gcacatgtat aaatggagat 120
gctttttcatt tttgttttggga ctgggtttgt gtcactgtctc attacagttt gctttttttgt 180
gtgttttgctg tgcgttttggga gatattagtc agtttcttta gtgatatttg tttccttgat 240
gtgccttttc gtttttcttt ggggtttttt gaatctggat gctgttgaag ggcaatagca 300
gactcctcca gctaagagac aggacatgtt cttgagccac tgtagctgtt gaagctggac 360
accagacgct ccctataacc cccccgccag gccatagcgt gwatgcawgt gcacttccac 420
ccacagagga ggggtgtgaag ccttgagaac ctcaagaaag ggctggattc tgccatacct 480
ttgggtctac cttgggactg ctgggttgcca acgtgtcaac cagcctgtgt tccctgccac 540
ccacgcactt gctgaggtgt ggctgargca gaatcatgtg aatgggtgca tccaaggagt 600
tcagggccct gcttgagaga gaaatamttt agcatcatga aagggaaaga acgtgcaccc 660
cttttttgtt tcttttagtga atgcaagatt taataaaaagt gaataatgag cttccccttt 720
gggagtggag cccagtgcag ctcaactgaca gggttgacat cagtatgatg tgttggactg 780
aaactgtatg tctgtaggta ggtgtgtgcc ttttagggca gaccacggtg gccaccccat 840
ttctccaagg tggtttacct agcttgtgta tattagacat tgccaccctc acctctggcc 900
aaaaattcct gatttaaaaa gaaaagtcta ttttgtaaac gacaggctct gttgtatgtg 960
ttactatccc aagcctggat tattttattt atttaaaagt attttaattt ccatattggc 1020
tttattctaa tccatcccat ccctgtggag ctgcagagca tcttcatgtg agtagacgga 1080
tggacataaa tagattcatg ctcathtagg aagctgggag tttcgtgaag ctgaggggtga 1140
gttcctgtga ttctgttctg cttcaacaaa aagtgggaga ccaagttttt atagcaaaaag 1200
accaaattag ctgtagagtc ttgaatgcag aaaaaatta ccctagcttt cttagcactt 1260
```

108

```

agggttttgt gaggattcag tgtttagcac agtgcttggc catagtaagc cctagtaa at 1320
gttaa atatt gttattagtg tttcgtaaaa cttgagaa at agagctgagc tcattccctt 1380
cctgttgatt caaaaaataat acctacatga aaacatgatt ccaagttgat tgaatgttgt 1440
aggaattact ggtttagagt agcccagttc tcggcctacc ctgctggttg ggatcttact 1500
gtattcttga atgcaactgg ttgaaaatat gccagacttc agcccccaag gaaacaaggc 1560
tgcaagaatt tatgaactcc agctggaaaa ggtaaagggtg acctttggct agccacatac 1620
tggaacctac cccactgacg tctttcagaa cattccaagg gttttcctca aggaacattt 1680
ttgagctaga aattaaatg ggttctctgg cagactgcac cccttgagtc aaagttaaca 1740
gtattccttt gaatgcaata atagaggctt ttctgcgtta agggagaagg aatgaccaat 1800
tgaacttaca cattccccag gcaggctcct ttgccggccc ctacaggctg ggggtggccc 1860
tcctgtcctc agggatcaga ctcccagact ggtagttct gcatgtttcc atcaaattaa 1920
aggttattcc ctggccgctt cctggagaaa accaacccca ccctgccagc tgggggcaat 1980
ggggcagggg ttttggcctc tcagaacagc tcctagaggc tgctcatgac tgaatgtttt 2040
cccaa atcac ctaaatatcg gtttgctttt tgttttgggg gagaggattt agcctcttac 2100
ttccctgatg gattcaaagt tttatctatc tccttatctc ctgccctgtc ttggcacaac 2160
tctggataga ttgcagggtg ggaatttgct ggagtttggg gacttcgtca aattcctttg 2220
gattctgttc cgccaaatca gcagtctcgt cctgtggatg cagtgactgg aatttcccat 2280
ctgcaaagca tctctgtagc ccagattttg tggagcctta agacactccc tcaatgccac 2340
cctgacccca cggctggaga accctgtgct tatgtgggtg gcagggccac tgttgatgga 2400
ggatggcggg gacgggggtg tgctcaaagg atctgtgggt ctggagggtc acacgcctct 2460
caggacagcg tgtcaggaac ctccagagcag cttcacatct gccaaagctg agagggagcg 2520
aacttgggaa gcattttgct cattgtccta ccaagtatt aatagcataa tagttgatgc 2580
caaaggagat ggtgacgtcc cttccactgt agttgtctgc acaaccttga cgtctttaag 2640
cta atggccg tttgcatctg tgtcttcaaa cagatcctgg ttacagccat tttgtgtgat 2700
tcaatcggg ggtaagtaa tgcaggattc tgcaaacaag gtgtcgccgt ccaa atgtac 2760
tgtctggca tagagagcac tgctttgttt tccactgttg tagagaaaac tagggagaac 2820
tttatttttc aataaacttt tcttgtgtga aaaaaaaaaa aaaaaaactc gaggggggtg 2880
ccgtacccaa ttcgccctat c 2901

```

&lt;210&gt; 182

&lt;211&gt; 290

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (276)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (286)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 182

```

taatttaggt gacactatag aaggtagcc tgcaggtagc ggtagcgaat tccggggtcg 60
accacgcgt ccgataaaac atgattttgt tttctaccct tcaaggtaaa cattaataat 120
aargtggtac ttgtgtwctt gtwcataaaa ccaaattat akttgggaaa aaaataaatt 180
tatatatgaa aatgtcaaaa tcatttttaa agtattatth tcaataaaaa tggagaagct 240
ggtgaaaarw maaaaaaaaa aaaaaaaaaa aaggngngccc cttttngggg 290

```

109

<210> 183  
 <211> 641  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (14)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (43)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (55)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (68)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (80)  
 <223> n equals a,t,g, or c

<400> 183  
 gttcaggaaa cccncaaggg ggggggagtc caaacgggat gcnaggggaa gcttnccttt 60  
 tcccagcnaa tttgtgttcn ggtttgaaaa gacccaccac aaagctttty ctattttctg 120  
 atttaaaagt cgcttttgaa tatgaccatg agaaaccaag aaatgctgct tgtgtggtgc 180  
 tctgcttcct gaggatttgg ctggaagggg attctccgct ggcacatggg agaaggccat 240  
 cttctgtgtc ggtgctgtga tctgccttgt tctcacttgc tgaggataag ggcatacacg 300  
 ctgctcctcg ctttcttggt gcccgacttc gtactaagca gctcaggagc agtcactcag 360  
 acccaaagt cttgactgtg ttgtttttta tctactgtgac ccttaaagta caggccaagt 420  
 gttgtcaaac accttggtga aaacagtggg gggatgatggg taaagcagta gagggccctc 480  
 aaccacaca ctggctgaaa ctgccaccaa ctgccacgat gaaccaact gctgtttatg 540  
 cccccatttt cctttttttg tatctacacc cacacgattc ccaatggttg atatttctac 600  
 atgaataaag caaggatcag tgccctttat gtaaaaaaaaa a 641

<210> 184  
 <211> 522  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (514)

110

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 184

```
caccacgtgg ctgtgaaaat gacaaagcat ggtcgtgagc cactatgcc ggccggattt 60
gcccttatta atggttattt cttgtgaaag tttctttttg cttttgcatt ctttttattc 120
tgtttattcc cccatgcctc acccaaagag ttgcacggtc aattggcccg tgaaggggac 180
gcctactttc aaacaaggca gacaggacac gacaggacgg cggctcatag cacagacttt 240
ggattgcagt ggatgggacc agatcctggc tccacttcts gcyagctgtg tggccctggg 300
caagctgctt aacctctctg ggcctcagtt tctccccctg taaactgggg gatgtgaaca 360
gcgctgcct ccgagtccta aggattggga gtagtcgtgt aaagtgtca ggtccacagg 420
ccatcaatac taatagttaa aaattattct tagaatcttg cttccctcag ctccctgaaa 480
ggccactaag gcaccccgat tgcagaggcc aatnggtccg gg 522
```

&lt;210&gt; 185

&lt;211&gt; 735

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (197)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (293)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (386)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 185

```
agtataacca tttaggtgcc agatttgata atcaccagck gctcatksar gtcctatgtt 60
gcaaagttac tcttacscct tttttacatt rcttgataaa ggcaatsttt aattayrtat 120
ttypctrtaaa ctagctggta gagttcatac cttaaagtcag taaataatgt taagaatttt 180
ttccagctga gcaaatngta tgtatctagt tgtaagaaat caagaagagg atataaaaata 240
taatcaggat gtggactcta aaacggaata acctctatgt cctgtaactt ttntcactyg 300
taataataca gcattctcac cctrttaaat ggaaatttar agcaccytta aattccggaa 360
taaaattgct atttggatwg aaaaanccct taggcaacat ttattgaata ttaggaaata 420
acttttatgg gattagaatc cattttttat agaaacccaaa tttaaaagta tacatatttt 480
aatataagtg ttgtgataat acagtaacca aaattgaaca cacagtttta wagcttttta 540
tatttagtag cagttgaata tatatggcat gttttacata gattaatttt actatttttc 600
tttrtttaaa maagagracc aaattgaaag ccracagata ctgcaratga ctgggatttt 660
tgtttctgyc ttatcttttt gtgttttttt tctgaataaa atattcagag gaaatgcttt 720
tacagaaaaa aaaaaa 735
```

&lt;210&gt; 186

&lt;211&gt; 785

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 186

```

aattcggcac gagagcaagc ggaaccaggt atcgtacgtg cggccagccg agccggcggtt 60
tctggcccg tccaaggaac gggtcggcta caggaggga cccaccgtag agactaagag 120
aattcagcct cagccccag atgaagatgg ggatcacagt gacaaagaag atgaacagcc 180
tcaagtgggtg gttttaaaaa agggagacct gtcagttgaa gaagtcatga aaattaaagc 240
agaaataaag gctgccaaag cagatgaaga accaactcca gccgatggaa gaatcatata 300
tcgaaaacca gtcaagcatc cctcagatga aaaatattca ggtttaacag caagctcaaa 360
aaagaagaag ccaaatgaag atgaagtaaa tcaggactcg gtcaaaaaga actcacaaaa 420
acaaattaaa aatagtagcc tcctttcttt tgacaacgaa gatgaaaatg agtaagtgtg 480
aatattttga atttagtcta ctttgaaagt atatggagtg ttcattaaaa tcacattttt 540
tcctattata aagatactac aagttcttta tagaaagttt aggaaataga gaaaaaaatt 600
taataaacta catctattca tcaatacccc tctgacttaa aatgccaaact ctatagaaat 660
tagctagtat taacattttg ttatttcctt tgtgtggttg tatatatatg taaattatat 720
ttttaagcaa aatacatttt ttgtgtgtaa acaaaatttt ataaatacaa ctgtattgca 780
aaaaa 785

```

&lt;210&gt; 187

&lt;211&gt; 1679

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 187

```

gatctttagg tttttcctat agaaaacatt cttcctccat cagtagccct ttatttgata 60
ttcagaagtg gaaagctttt tcattctcca gtagaacttt taaaaattgt tacagatacc 120
tagctcttca cagatatcat gtattgtaaa cagtcagtgt tottaatttt attttctcta 180
tttgagtgca taattatcct aataatccca aagacactga caactcaagg aacagcagta 240
cagtactatt agaagttaag tatgttggtg ttatttcaca tttcatttaa ttgtggataa 300
atgttagaca tctgttgaaa taagtcata tgggtggaaac gacaactata ttatgaatta 360
ttttcagaaa tggatctttg aatagcagat caggatttaa ataataaaat tatctatgaa 420
tcacttttat ggtcatacat atatgatata aatccagagt tattgggtgca gaaatggcta 480
cccagagact tggtaaatTT gccttgggtt cttatgttaa atgtattgtg cttcccttct 540
gtctctagaa tbtggctctt cagaagacag acaatcgaca tttaaatttt tccaaacaat 600
gaaaaactaa attaaaaaca ttgcttgata tttcatttaa aattgcacct tgcttaaggt 660
ttactgaata actgaaatgt cagcaattta aaataaattc aattgtgtga taaaatatct 720
cacctataat agaagaaaag gaaaatcata ttatttggca attttgcagc attgtggttg 780
cctaacaggt atatccagca gatgagaaac agtatgaaag gattgtatta acatggtaag 840
ttttgcccta aggaaaacga tcttgcattc tggattcttg cagcaaagtc tcagatactt 900
aatacgtttt cttgktttat catctgktct atgattcggc ttcactttgt gtggktattg 960
aattatgtaa cagagatttg gktttcccaa aatgktatca catttgaaac tatgattgct 1020
ttgkgktcag tccttttgga acacgtagct tycagcttaa gggtagagga aatatatacc 1080
taaaatcatc aatacatgaa agaaaaagga tggaaactat gtccctcagtt ttacttctac 1140
caaaacatcc ctgtatgtgt gtgcatgtat gttggcgtgt gtgtgtgtgc atgcatatta 1200
gtaaatgtgt gtttgcattg gtgtgttggg gagtgtatgt gatctgggtg tttgtttatc 1260
tctgttatta tcccccttta gctttatttt agtcaactct acattatgat gaatttcaaa 1320
atgaagctgt attaaaataa ttgtaatata acaattcaat ctcacatgtt actgcagata 1380
gttaactttt gctgcaatct attgtacatt tgcaattttc tgtgttagta aacttagcag 1440
aatctggtta wttattttwg tgtaggctta atgttccactg aaagataagt caattactgy 1500
tagtaaaaaa ttaagggtact ctcactgcag agatttgaag ctgggcctaa tgtgctgtat 1560
tatgaagcct tgtgactgaa aaatatgttt acatatgttg tctatttttt taataaactt 1620

```

112

ttatagctgg tctatttgct cagtaaaaaa aaaaaaaaaa aaaaaaaaaa aaactcgag 1679

<210> 188

<211> 780

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (289)

<223> n equals a,t,g, or c

<400> 188

cggtgggctc gcgttgaggc tgcgggtcatg gagggagcag gagctggatc cggcttccgg 60  
aaggagctgg tgagcaggct gctgcacctg cacttcaagg atgacaagac caaagtgagc 120  
ggggacgcgc tgcagctcat ggtggagttg ctgaaggctc tcgttggtga agcagcagtc 180  
cgcggcgtgc ggcaggccca ggcagaagac gcgctccgtg tggacgtgga ccagctggag 240  
aaggtgcttc gcagctgctc tggacttcta gggatctcag ccgtggckna ggccaccccc 300  
agaggagccc ctggtccaca gaagcaggcc ttgtgtttcc agcggcctct gataagaggc 360  
aggaaggam ctgaaggatt tggarttgat tcaaacaaga tctctgggag tctccagcct 420  
gtgcagaagg ggcaggactg cagtgcactg cgggccttgg agtgtccagt ggggacactg 480  
gtgtgggaag gggcagcacc tggggagtcc ctgcctctcc tccctgggac aatagtgtgc 540  
atgccacccg gggctctaca ggcagggtgt gggaaaggcc tggccagcag gtagcctgtg 600  
tgtttgacaa acagcagctg gcagcgtgc ctcttgccca cattcctgcc acccgacatc 660  
aaagctggcg tgtgaccttt ccagccatgc gatattcccc ttggaagatg cttccccagg 720  
ctataaatTT gttctcacia agcaacatca ataatcaaa actgtctcty ccaaaaaaaaa 780

<210> 189

<211> 533

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (485)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (498)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (522)

<223> n equals a,t,g, or c

<400> 189

ggtcccttta aggtttgctt ctacagcccg tggacttttag cctaaacacg gacccgcgaa 60  
gctggcttta tttgtccatg tctcgacag agcctgggaa gctgccagtg agatttcaga 120  
gaccaagagc gcgaaggggc gggcgatgtg gcaatccgtc tgggatgtga aaagcgtgga 180

113

```

gcgcatttag aggcattcga cgaaaacaca ggaaatcact cctctcccgc tcttgggcgc 240
cgctgccact ggggcagagg actgggaacc gcggcagcgg gataagtggc ccagccagag 300
agcgcagctc ccgcgcccgg tcttgccctg cgaaccacgc ggccccctgg gctgaagctg 360
ctccggccat ggccctcggc ccgcgcccgg cccargggtg gctgtcccct gcttgctggg 420
ctcctccctg gtacattgcc tcttcccggg cacaatttac tccctgaaaa aaaggccctt 480
tgttnaacct actgtggnta accgcctttc aaaaactaaa anttgctggg gaa 533

```

&lt;210&gt; 190

&lt;211&gt; 602

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (548)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (583)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (590)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (600)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 190

```

tccttaatct tggttttcct taaactttct ataagtccag catctgaaat attttgtcaa 60
ttatcacatt aatgtgttca ttttgtaagt aagagtactc aattttaaata gatcttactt 120
taaaagtggc ctagtttgca gtgcccagca ggacactgac agtcacagct gtgtgacttt 180
ttgtgggtta cttaatTTTT ttgagcctcc ttttctcttc tattcaatga ggataatagg 240
gcctacctca taggattatw atgcattccc ctctgttaat gcacgtaaag tttttacttg 300
gaaaactaac tcaccattta acaaccattc taagcaccat agaatatatt ttgtttcaca 360
aatttggtat tcattcagaa taagtatttg aaaagtgagt aaattctatg caattatagt 420
tattaaatga cttataaact gtgtttctct tccacttctt gctacattta atcttctagg 480
tgttcagata tctttggaga ttataggcag caataaagct aaggcagcta acctttaaca 540
ttcttggngt caagctaata ttttgggtgaa aggggaattct tngggttctn aaaaaacttn 600
ga 602

```

&lt;210&gt; 191

&lt;211&gt; 858

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;



<221> misc feature  
 <222> (772)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (801)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (814)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (815)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (852)  
 <223> n equals a,t,g, or c

<400> 191  
 cttggctcaa acaatatattt ccctataaca aaggcaatag gacacaaaat tcacatcctg 60  
 ctgggccttt ttcatcaag tcagggatgat ataaaaacat tggaagtctt ttcaccaaac 120  
 cctgacttta ttgaatgcta gtagaagatg tagaattaga gacatctgat ttgtttatca 180  
 ccttagcaga aaaaccacag tccaaaagac aagcaaatta agaatggagc ttaaccatgc 240  
 ctccattggg aagtctagac tttgagccag gtacagtaag aaaaattagc ctctgattca 300  
 ttaagtttgc cacatgactt attttgatat tttggatata ttaactcact taggagaatt 360  
 cagaaaagaa tgggtgatta aagttcatta cagctgaata aatgtgtcta aaacagactc 420  
 ttgtattctg aaagtacagt ctacaactga taaaacctta tgattctttt ctccccatt 480  
 atgcccctat atatatcaag atttgggtac tttatttttag tagaaaatat atatctttta 540  
 catatgtatg tatttataaa tgcataagata tatgtataaa aattttgtaag cgtagcggc 600  
 attaattcac caatgcattt ggacaacttg atgtaactga ctttatttta tgtgactata 660  
 ataaaaagca taattttctc aaaaaaaaaa aaaaaaaaaa aaaaaagggc ggccgctcta 720  
 gaggatccaa gcttacgtac gcgtgcatgc gacgtcatag ctcttctata gngtcaccta 780  
 aattcaattc actggccgt ngttttacaa cgtmntgact gggaaaaccc tggcggttacc 840  
 caacttaatc gncttgca 858

<210> 192  
 <211> 667  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (82)  
 <223> n equals a,t,g, or c

115

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (234)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 192

```
gcgggggaag cggggctgta gctgggcagg gagagggcgg acgaaatcgg tagcgatctc 60
ggctgcggcg ctgcccactt gncccgcccc gcggggcgcg ccctgaccct tcattcttgg 120
gcaggctcga gggcgcgcg acggttgagg ttctggggcc tcaaactcct gggccttgac 180
cgggcaggcc gcgtctcccc ggggtgtgagt ccaccgggac ccggccgccc cctnaagcgc 240
gkgcgccaca gaagcggcgg cgccgaaga cgcgctcctg gtcggcccg acagcctcgc 300
ttggccgcca gttcttctgc agccgaaggc gggtgttctt ttaaagaatt attgaagacg 360
aagggttttt tctttttatt tttttaatgg ytttacagaa tcttaaataa aatacagttt 420
gacatgacgg caaaaaatgt tggtttgact tccacaaatg cagaagtaag aggatttata 480
gatcagaatc tcagtccaac aaaaggcaac atttcatttg ttgcatttcc agtttccaat 540
accaactcac ctacaaagat tttaccacaaa accttaggac caataaatgt gaatgttgga 600
cccaaatgt gatagaaaac gggctagaaa atttatagac tctgattttt cagaaagtaa 660
acgaagc 667
```

&lt;210&gt; 193

&lt;211&gt; 537

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (85)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (511)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (537)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 193

```
gttaccgctc tataccggca gcagccgcgg agagcatgcc ccgccccgt ggagcccacc 60
ccgggcggtt aacctcggtt ctcantcccg ggctgtgacc ctccccgagg ccccgcccc 120
acggcgaagg cccggggcag ttaacccttc tcttctgctg gcagagtccg caccggggca 180
ggcccatctc agaattaacg ctttgatggc atcaccgctg cgggaatccc tggggatggg 240
gttctccacc gtcaagacct ttgagccgcc tgagcgacta actcctgcgc ccctgagggg 300
acattttatt cagaaattaa atcattcaga gttccagcac tgcgggggt catcgggctc 360
tgtccaccgc catagcctag cattgtcacc aacggagcca trgagggacc tcggcccaag 420
ctggggcctc ttcattgtcg aaaaggcctc ttgccagacc aggatctgtg ggcgcgccca 480
ggctggagga ctagggcggt ggcagtggca ngtgagtgc catggctgtg ggtggtn 537
```

&lt;210&gt; 194

116

<211> 400  
 <212> DNA  
 <213> Homo sapiens

<400> 194  
 tctaactata ttaaaaaatt tctgtatggg gatatcatta ggaagggat cagtaccttg 60  
 tctgtwatgt gtctactaag caaaacccaa actgcagcac cccctgtgg tacactgcac 120  
 ctccagtttg tactgggggt tgttgccag gctataggca tctttcacag gtccttgctt 180  
 agcatcccaa gtactgtgaa tacatgttga ttcttttaaa agacctggat tccaactcaa 240  
 ataaatcaca tcataatact ggcagagatc atcccaggaa atccaaaata ttccgttgct 300  
 tattttctga gctgttcggg gatcaaagtt taaatacttt tgcaactctg gaggccagtt 360  
 ttttacatca ttttcactgt atcttccttt ccaacgtaac 400

<210> 195  
 <211> 431  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (411)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (417)  
 <223> n equals a,t,g, or c

<400> 195  
 cgcgtgggcg gacgcgtggg gtgaattttc agccctcaga gcagaaaatg agaaaataaa 60  
 actcgaacta catcagttaa aacaacaagt aatggatgaa gtgatcaaag tccgaacaga 120  
 taccaaatta gacttcaacc tagaaaagag cagagtaaaa gaattgtatt cattgaacga 180  
 aaagaagctg ctggaattga gaacagaaat agtggcattg catgcccagc aagatcgggc 240  
 ccttaccag acagacagga agatcgaaac tgaggttgct ggccctcaaaa ccatgcttga 300  
 gtcacacaag cttgataata ttaaataatt agcaggggtc atwtttacst gcytaacagt 360  
 agctctggga ttttatcgcc tgtggatcta ataaagtgtc tattttaaagg ngaaaaanaa 420  
 aaaaaaaaaag g 431

<210> 196  
 <211> 417  
 <212> DNA  
 <213> Homo sapiens

<400> 196  
 tttcactttc tacttttttc attttgttct gttcgaattt tttataagta tgtattactt 60  
 ttgtaatcag aattttttaga aagtattttg ctgatttaaa ggcttaggca tgttcaaacy 120  
 cctgcaaaac tacttatcac tcagcttttag tttttctaata ccaagaaggc agggcagtta 180  
 accttttttg tgccaatgtg aaatgtaaat gattttatgt ttttcctgct ttgtggatga 240  
 araatatctt tgagtggtag ttttttgaca ggtagaccat gtcttatctt gtttcaaaat 300  
 aagtatttct gattttgtaa aatgaaatat aaaatatgtc tcagatcttc caattaatta 360  
 gtaaggattc atccttaatc cttgctagtt taagcctgcc taagtcactt actaaaa 417

117

<210> 197  
 <211> 734  
 <212> DNA  
 <213> Homo sapiens

<400> 197  
 agacatattg aggtgcctgc ctttgtggag tattcatttt atgctgcccc agatatcatt 60  
 taatttagac ttaacaagta tttccttggtg attatattac tctgtccttg ttaataaagt 120  
 gctgctgtgt ttgactctga acatactacc aaaacttctt caaagagttt tttatgaaag 180  
 actttcctcc tttacaagar agaaatruggg tgcctgcttt ctgttttagta aaagcagaat 240  
 ttgcagtggc atctaaagag acttttttaa ataaaaatta tgtattgtgg cataatcctt 300  
 tttttgagct ctacagagaa cagtcttttg gtaatagtgg caggatttta ttccttctga 360  
 atatataccc cattatagga ataactgtta cttatttagg attccatcat tgaaaatttt 420  
 gacccaaggc acagcagtga aatttatagt tcycaattta gttgtcatta ttgacaggca 480  
 ttgggtattat tagtcattgc taagcaacta aaacttcac agttcaaata agttttaatt 540  
 gtcaaatgaa gtataaacac atgaactttc tagaaatatt tcctcttttg gatagggtctt 600  
 taaccagttc atatataac tttgtcaaat atatggatgt gtatgtgtac atttataaga 660  
 accagtatgg atacatccat tcactgtggg acatttttaa ataaaatatt ttagcagtga 720  
 atatggaaaa aaaa 734

<210> 198  
 <211> 606  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (144)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (155)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (598)  
 <223> n equals a,t,g, or c

<400> 198  
 aggaagctgg gggaccattt tgcaccatga gtttgtgaaa aatctggatt aaaaaattac 60  
 tcttccagtg ttttctcatg cmaaatttyc tyctarcatg tgataatgag taaactaaaa 120  
 ctatttycag cttttcctca attnacattt tggngtata cttcagagtg atgttatcta 180  
 agtttaagta gtttaagtat gttaaagtgt gatcttttac accacatcac agtgaacaca 240  
 ctggggagat gtgctttttt ggaaaactca aagggtgctag ctccctgatt caaagaaata 300  
 tttctcatgt ttgttcattc tagtttatat tttcatttaa aatcctttag gttaagttta 360  
 agctttttta aagttagtta aaagaattga gacacaatac taatactgta ggaattgggtg 420  
 aggccttgac ttaaaacttt ctttgtactg tgatttcctt ttgggtgtat tttgctaagt 480  
 gaaacttggt aaattttttg ttaactaaat ttttttctta aaataaagac tttttcacia 540

## 118

wraaaaaaaaaa aaaaaaaaaa actcgagggg gggcccgtac ccaatcgctt gtgatgtntc 600  
gtatac 606

<210> 199  
<211> 373  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (251)  
<223> n equals a,t,g, or c

<400> 199  
catcttgagg gtcaaataat agtaggaaaa gttcagcaga tactgaattt tctgatgagt 60  
gtactactgc agaaagagta ctgatgaaat ctccatctcc agcattacac ccacctcaga 120  
agtacaaaga tagaggaatt ttacatccta aacgaggtagc tgaggaccga tcagatcagt 180  
cttctctgaa atctacagac agcagtagtt acccaagtcc ttgtgctagt ccttctcctc 240  
catcctcagg naaagggtc aaaatctcct tcrccaagac caaacatgcc tgttcgatac 300  
ttcataatga agagttagca tttgagaaac cttgaaattt ctcaacagaa gggtatctgg 360  
gctacaacty cta 373

<210> 200  
<211> 3652  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (306)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1412)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1519)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2101)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2102)  
<223> n equals a,t,g, or c

&lt;400&gt; 200

```

acgagctgat gtctcccgga ggaatctgca attgcataat ttagttgggt gcttgtctac 60
tgtctctctc tttggcaaga atgaaagctc tatgagcaaa cagaccttgt ctgccttatg 120
atccattttta ttactagagc ctaggactgt taaattcatt aataaagtct ttccatcact 180
ttttgttctt tatattcctt tactcaattg atattcagca tgtgcagaac agttcttttc 240
caaggctgca taaaagtttt ggaatgaggg acataaataa tatccttcta ccaataaatg 300
ctatcngtta taaaatagtt tttattttat aatcactgaa tatgtcaaaa ctttacagtt 360
caggcctttt gaatcaaag caaaatcaaa tatgaaaagg ttaatgatct tgtccactaa 420
aattgtagtt tgccatacag gaaaatagac tcttaaaaat gataaaaaaa aaaaaatcat 480
tcttaaggaa acatattaat aagacattta aaaaggctaa gatctttaat gtgaaaaata 540
ataagataaa gatgacaacc actgaagaga agaaaaaacg ttttatgttt tttctaaatg 600
tgtgtaaaaa caaatctttg tacctacca aatgacactt ttttcaaaga aaggtatcaa 660
atgtgtatac tttaacacac agcccttcct tgtgtaaata tataaggaaat ccttaaagga 720
gcataaaaca atttacttag aaattctata cttaaactta ttcaaaggaa ataattaaag 780
gtgtgtaaat aagatatgca tagcattgct ctaaagtca aatagtaggg aactaggtaa 840
ataagatata tctatttagg gaattagtca agtaagatat acctatttag ctaattccat 900
gtagccatca aaaggatacc atagaacaga acttattgat gtgaaaagat gattaaaatg 960
tacttggtac taaaaacagc aggctgcaat actgtattaa ataatgagcc catgctgtat 1020
atctagacaa acatatatca taatgataat aataaatgta tgagacttat atttttgctt 1080
ctctgtattt tctaatttgt ctgtgataaa caaatattat taatgtaatg aagaataagc 1140
taaaatatac aaaaacaata acaactataa aaagaacccc ttcaatcaaa aagagatcat 1200
cagggattta attcaactat ggattggcac tattaggagg ccaaatatga ttcgttgaac 1260
tgaactgtag taaagacaag atattaggaa aatgttttaa ttatgtgaga actattctca 1320
agcactttaa agatctatct gcaagataac aatgtgctaa ctttaagtaa tgtctatgta 1380
ttcttgagac cagctttgac aatgacagct gncattccat ttgacttggg cttacattat 1440
gttttgtcta ttttttcaaa aacagaaccc agggactgat tcttacaagc attttcttaa 1500
agattcactg ggtggctgna aatctgatca agctgttctt tgggagatca ttattcaaca 1560
cttatcacat actttatttc tacagctatg actgtcactc cccaagcttc acttcataat 1620
gaaaataaag aatacagccc ttttgaaaaa gttggatggg aataccaagt gcgtaagttt 1680
ttagtacatg ccatatcaca accttctacg tggttgactt ttgacttttt catctctttt 1740
ataactgaca gaagacacaa aggcaaaaat gtcaacttca caaaaaatct tagtgctttt 1800
tggaagaat gttatagatc atccagtcta acccctgat gttataaata tggaaattta 1860
ggcctagaaa ataggtaagt gatgaatcaa actagaagca ggtgtcctgc ctctaagccc 1920
aatccagttg ccatcatcat ttactattta catggaacat caggttctac tttagaagtt 1980
aactatcaac ctacaggggt aaggaaaata gcaatgtgta tatacagacc ttgcatctgg 2040
tagctgtatg gtgcctgtcc aggttgaggg gtactgaagc ttgtgccata gctgagaaat 2100
nntgtctgtc caggtgactg agactgtgac aatccacctt cagtcttgat gcctgccac 2160
aatgcaccta aatcagttag tgatagctta tctatctgtc catcttcaaa agctggtaaa 2220
tatacaaaaa catacacttc cacaaccgtt taactacaaa tgettcccca atcttatctc 2280
aaaaataaag ggtatacatg cattcagtga aataccataa agtacaactt cagtttttta 2340
aatccaggat tacagatttg aatgtctatt cacattattc tctctgtttt tattgcactt 2400
caagacatat ccttctata aaatgtaact ccagtgatat attttcatac ttaattttgt 2460
tgttttaatt atgtaagagt tgaagatcat ctcttcaca gtaaagaaat agccataatt 2520
aaatttttagc taaatgttcc caaagttgct atattgacta gtgttaaaaa taaaatcctt 2580
ttttatatta aaaatattaa ttagatccta taccatcaca gtatttttcc ctcttttact 2640
ctttctacta caaagctgat ttcagtacca actcattttg aagtccaaag aagcaatact 2700
gggcacagaa ctaaacaaca tgggtggaaag gcttttcctg aatatctagg tcctatcaga 2760
aaataagcac aaaggaagca gaacactaat gagctgaatc ttataaaaca gcagtgattt 2820
ataaacaagt gaggttgacc agcagtttcc ttttgccct gttagtgtga aatatttgac 2880
tataattggt ttcgatgtag tctaaagtac ctttgttttt atcatatgat aatataaaaa 2940

```

120

```

tgatgtatct gtggccccc aatacttccc caaacaccag gctaacatcg taattttggg 3000
acttggtattt ggcagcactg aggtatgggg ctcagctctg tctttaatta attacaatta 3060
aagacagtca tacatgttaa caactctcct tcattctcac agagggaggg aagaaaaatt 3120
tctgccgagg gaattcacat tttttaataa ttttgcttcg tacttaagat aaatgatatc 3180
tttaggatct agaatacaca gtagtcttac tgtttatttc cattttaggg gaatctcatc 3240
agcagagtac agctaggtaa ttgttttaag gcagtgggag aatctgactc ttggctgaga 3300
gtgcctactt taattcctgc agtatctcta aataacttca taatgacctt aacatttaag 3360
tcttaacaca accttaacat tttaaaaatg tgattttccc tgtaaagggtg atcccaaacc 3420
aatgaataac ccacacatag aaatggtccc tggaaataca cctgccccag acaggtggca 3480
tgatggcttt agaaaatccc tttctttcca tgttgctacc cctagggatt ttccacctct 3540
tgctgcattt gagactatac tgatctgctt ccagccttca cctataccaa taaaatacca 3600
ataattcatg tatttttttt ttttgagacg gagtctcgct ctgtcaccca gg 3652

```

&lt;210&gt; 201

&lt;211&gt; 551

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 201

```

gctgcagcga cgtcgggagc agaagcagcg gcgacacgac gcgcagcagc tgcagcagct 60
caagcacctg gagtcctttt acgaaaaacc tcctcctggg cttatcaagg aagatgagac 120
taagccagaa gattgcatac cagatgtacc aggcaatgaa cagccaggg aatttytggt 180
tcatgcacca actaaaggac tttggatgcc actggggaaa gaagtcaaag ttatgcagtg 240
ttggcgttgc aaacctatgg tcaccgaacg ggtgacaaaag aatgcccttt ctttatcaaa 300
ggcaacccaa agtttagagca gttcagagtg gcacatgaag atcccatgta tgacatcata 360
cgagacaata aacgacatga aaaggacgta aggatacagc agttaaaca gttactggag 420
gattctacct cagatgaaga taggagcagc tccagttcct ctgaaggtaa agagaamcac 480
aagcaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 540
aaaagggggg g 551

```

&lt;210&gt; 202

&lt;211&gt; 665

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (463)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (471)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (582)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

<221> misc feature

<222> (612)

<223> n equals a,t,g, or c

<400> 202

```
gcggcacgag aagtcacagg tcttgccaat actggtgtag tttcttgccct atatccgtaa 60
tttgaaggaa atggtragag tgattagaga agtgtaatta ctgtaatttt tccccctatt 120
gtagtttctt gcctgtatcc ataatttgaa ggaaatggta agagtgatta gtgaaatgta 180
attactgtaa ttttttcccc attcaacttt atatatcttt aactgatgac cagatcattg 240
ttgttctgaa ccagtttgtg gtcagcaagt gttttgtggg gttttgtttg tttgttttta 300
aagaacagtt tgggtcactt gacatgggtc tccaaaggga tkttatgggt tgtwtttggg 360
tctgggtgat aaccgacttg ttagataaatt tagataagca accgagttgc catgtttgtt 420
tgtcaaactc caagtgtagc ttatatttta tgttcctaga gangttgtca nggaaagatt 480
tgaccttttg gcaaactctg ttgaatagag atactacat gctgccaat aaggctttct 540
ggccctgaaa aatatacgga attattcttg gaaatttgaa anggaaaaaa gaaataaact 600
gatccatgtt tnttaccatg ccaaattaat tgaaggaatt ttcctaaaag gtatctcccc 660
tcggt 665
```

<210> 203

<211> 2102

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1861)

<223> n equals a,t,g, or c

<400> 203

```
aaaaaaaaaa aaaaaagaaa aaaaccaaac taacccaaac tctgtaaaag agtgctttga 60
gctctacaaa taccaagtat ttattgtggt atatttttag aatgtagcca tacagtgtaa 120
ttatgggtat ctgtcatgga tcacaattat tattcatagt aagtcattgt gatacagaag 180
tttgtttctt cacttccccct taagaagcca actatagtaa tcatgcaaaag ttgaggagta 240
tgtccttcag ggatataaaa agaaaaacaa atctgttttt tgagctaaaa gagcacatcc 300
aaacaagaat ttaactggct aaaatttagt aattactgtt aagtaactat caaacttgaa 360
atcttacaag ataaatgggt aagatgtctt gagtattttg gatggggggc tgtgagtctg 420
attgagacat acattttaca gagtagcagc actggaaagg gctagtccaa cctcccagcc 480
tctgcttggt tctccgctgc cccagccaca cacatcctag aattcttgta aacatatctg 540
gctctgtggt aacagtgcac ttgttatatg ttttctaaga gattagttct tcctgtgatt 600
tttccaagta cgctgaaagt agtagtatga acttaaggag gctagtcaaa gaaacttgga 660
gttataggta tttttaaaga ataaatcctc aattccatca tcacttggcg gggagggggc 720
acttattaag catttttagat aataaaactg gttaagctta ctctggtaga acagacaatc 780
aaatctgggg attgctgaga acaataataa gctgaagtat ggctcacaga atcctaacac 840
aatcattaa gtctctagtt agatttgta tccataaaatt tttcatagaa ttttaaaatc 900
taattctgac ttgtatggtt aagaaaagca gttaaataat ttactactta tcaagggctt 960
ttaaaataaa taaatctgat tgataggaag aaaggcaaat aaatacctat gtagacattc 1020
tataataaca aagagccata gatgataaag gaattagatt ttaatgtaga atgggtggtt 1080
tctgaaacaa aggtatgtgg tactttgtag ttattgatga gaagccagta accagtagtg 1140
ttttcctaga tatatgccca cctcacaca actttcttca ttaacaaaca ttaaataatgc 1200
atgtgtatct tattaatata tattgtataa tgctgaagga aaacaaaaag tgttcaata 1260
atcataactt ctacattaca gggtctgttt agatgcagaa ctagaggggc cagggtaaat 1320
```



122

```

gtagataaag agatatatag caccatgctt cttaatgctt catacttttg caaacagaaa 1380
aaaaaagttt tactttttatt ataaaacttc atctatgggc aaagtaaaca ctgttacatt 1440
taaattgctt tttaaaaaca attgcatctt aaaaagtcaa aaatctgaaa ttttaataata 1500
tgagacttac actgaatata atgttcattt agaagttgct gtgggtccact tcatttataa 1560
ggaacaaata tttttacagt aactatagc aacagcaaaa gccctctctc accctgatag 1620
gaatgggttt gctgggtgct tagaagttag attcctgctg aatagaatta gccatcctta 1680
aaagatttta atccaatact gaactgttta taaaatgctt tctctattgt aatgtactgt 1740
aagtagtgaa attctgtata tactgctatt ttctgtctgt tcattgttgt gaacttctta 1800
tgtatattag tgaaataaat tttcagcttt catgttggtt cctaaacatt cataagtata 1860
nctaactatt aagagatttc ttcttttctt gagtaacaaa tttggtgatt atattctttc 1920
tgatccaacc ccaaaaacta gctattctga aaaggctgat gttcactaat gggaagaatg 1980
aaatgacctt tcacctctta agggaaaaca gctcgcgcca ttccctttca aaactatact 2040
tcttttactt gatactcaa acttctgcac caaatcagt cagtattttt ccagaatgcc 2100
tt                                                    2102

```

&lt;210&gt; 204

&lt;211&gt; 283

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (181)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (282)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 204

```

aactgatatt taataatatt taatattgct ctaaaatttc tggctaaaat gaaaatattc 60
aaccatcagg aaggagaaac aaaactatta ctgtttgtaa acagtttata atcagtactt 120
acctaaaaat cctggagaat gagctcagaa atattttctaa gagttgagac agtttagcaa 180
natgaacaga tacaacctca aaccaaacca aactagaaag ctcagaggac acagaatgcc 240
agtactgggc tgggcaacac ctctgttggt tgtgaaaatg tnc 283

```

&lt;210&gt; 205

&lt;211&gt; 425

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (34)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (77)

&lt;223&gt; n equals a,t,g, or c

123

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (424)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 205

```
ccacaccccc ataaggccat ccaaatatTT aaangccccc ccagtgggaa atttgggtgtt 60
taaaacctca atggaancct aatatttccc ttatgtccgt tagtcccctg taaaatgtta 120
ggtcacccca aggaaagggg agaaatagca atggttggtc ctaaggtatt gcttgccctc 180
catgtcttcc taaagagcag aacttggagt ttctccttta tgtagagaag aagtwactta 240
gggtgtatTT gcaatgaaat attcatagat attgaaagct tgtgtttaca tkaaatatgt 300
ttattatcaa gaagtccttt ttccaattct gtacattaaa tatatgtgtt ttaaaaaaaaa 360
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aagggggggg 420
gggnc                                           425
```

&lt;210&gt; 206

&lt;211&gt; 483

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (444)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (469)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 206

```
cccacgcgtg grcagaccgc gcagggagca cacaccgcca gtctgtgcgc tgagtcggag 60
ccagaggccg cggggacacc gggccatgca cgcccccaac tgaagctgca tctcaaagcc 120
gaagattcca gcagcccagg ggatttcaaa gagctcagac tcagaggaac atctgcggag 180
agacccccga agcctctccc agggcagtc tcatccagac gctccgctag tgcagacagg 240
agcgcgcagt ggccccggct cgccgcgcya tggagcggat cccagcgcg caaccacccc 300
ccgcctgcct gcccaaagca ccgggactgg agcacggaga cctaccaggg atgtaccctg 360
cccacatgta ccaagtgtac aagtcaagac ggggaataaa gcggasgrrg gacagcaagg 420
agacctacaa attgccgsam cggntcatcg agaaaagaga cktgacggnt taamgaktga 480
tcg                                           483
```

&lt;210&gt; 207

&lt;211&gt; 976

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (193)

&lt;223&gt; n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (929)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (958)  
 <223> n equals a,t,g, or c

<400> 207  
 agctttcagc aagagatggt cacaatcaga aggataatac aaagtcaaaa gagaaggaga 60  
 gtgaaaacgc ttccaggaga tggtaaagga aataagcata agaaacacag aaaaagaaga 120  
 aaaggggagg aaagtgaggg ttttctgaac ccagagttat tagagacttc taggaaatca 180  
 agagaaccta cangtgttga agaaaataaa acagactcat tgtttgttct cccaagtaga 240  
 gatgatgcc aacctgttag agatgaacca atggatgcag aatcawtcac ttttaaatem 300  
 gtgtctgaaa aagacmagag agaaagggat aaaccaaag caaaggggtga taaaaccaa 360  
 cggaagaatg atggatctgc tgtgtccaaa aaagaaaata ttgtaaaacc tgctaaagga 420  
 cccaagaaa aagtagatgg agaacgtgag agatctccct cgatctgaac ctcccaatta 480  
 aaaaagccca aagaggagac tccgaagact gacaatacta aatcatcatc ttcctctcag 540  
 aaggatgaaa aaatcactgg aacccccaga aaagctcact ctaaatcagc aaaagaacac 600  
 caagaaacaa aaccagtcaa agaggaaaaa gtgaagaagg actattcaa agatgtcaaa 660  
 tcagaaaagc taacaactaa ggaagaaaag gccaagaagc ctaatgagaa aaacaaacca 720  
 cttgataata agggagaaaa aagaaaaaga aaaactgaag aaaaaggcgt agataaagat 780  
 tttgagcttt cttcaatgaa aatctcgaaa ctagaagtga ctgaaatagt gaaaccatgc 840  
 accaaagcgc aaaatggaac ctgatactga aaaaatggwt aggaccctg aaaaggacaa 900  
 atttctttta gtgcgccacc aaaaaaatnc aaactcaaca grgaaactgg gaagaaantt 960  
 gggagttmcc gaaatt 976

<210> 208  
 <211> 660  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (560)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (567)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (583)  
 <223> n equals a,t,g, or c

<220>

125

<221> misc feature  
 <222> (589)  
 <223> n equals a,t,g, or c

<400> 208  
 ccacgcgtcc gccgacacgt cgggattggc ggctgcagcc aggggtcctc cgacgctggg 60  
 cttccgtgag cggcgctctg ccaggtgggg ccggagctgc ggggagggag ttggcgcta 120  
 gcgcgcactc catccccgcc tctgcagtgg actcgccgc agaatcgggg tcccgggctc 180  
 ctggaacttg tccscgccag gccgcggcga ggaggtcact ccagccgatc tctggaccgg 240  
 attcgtecca ttctcgtcct catggtggac aagaaactgg tgggtggtttt cggaggcaca 300  
 ggtgcccgagg gtggctccgt ggcccgccaca ctctggaag atgggacatt caaggttcga 360  
 gtggtgacct gaaaccctag gaagaaggca gcaaaggagc tgaggctgca aggtgcagaa 420  
 gtagtgacgg gagaccaaga tgaccaggtc atcatggagc tggccctgaa tggggcttac 480  
 gscaccttya tctgtaccaa ttatgggaga gctkcagcca ggagcaggag gtmaagcagg 540  
 ggaagcttct tgctgatctn gccaaagngcc ttgggcttca ctntgtggnc ttcaaggggc 600  
 cttgaggaca ataaagaagg ttacgggaag ggagatttgc cgccggggaa cttttaccgg 660

<210> 209  
 <211> 514  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (56)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (464)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (467)  
 <223> n equals a,t,g, or c

<400> 209  
 tggaaccaat ctttgtggta catattccag ctttttgaat gagtgcatac ccagtnagta 60  
 ccttttaaagt aacactttgt acataacaar tactcagcaa atgtgaaact ttatttgctc 120  
 ttacttcaaa attagtccaa aatgttggaa ataaaatata agacattgat ctagatatga 180  
 ggtttttctc cttcattctc agctgtcgaa gaaatcraag tagcatatgc acaaggwtaa 240  
 aaaccacata tacaaatact atagaacagc ttataatgaa aaccttgccg gcctttataa 300  
 aaaatgtgat tatcttcttc tgtaaatgtc aataaaagat ggtttgtcct agaaggctca 360  
 taaatggat tatgttcttg agggtttaca tatgaaaaat gtagaaaata caaaaagtgt 420  
 ctatatatac aaaaatgtaa gtgttaacat ttttatattt gccntcnagc ttttttttta 480  
 aataaaagga atgcatatt gccattaaaa aaaa 514

<210> 210  
 <211> 173  
 <212> DNA

<213> Homo sapiens

<400> 210

```
gtcaatgctc tgaaatctgt ggagcaaacc acagtttcat gcccacgctc ctagaattaa 60
ttcccctaaa aatcttttgaa atagggcccg tatttaccct atagcacccc ctctaccccc 120
tctagagcca aaaaaaaaaa aaaaaaaaaa aaaaccctgg gggggggggc cgg          173
```

<210> 211

<211> 1521

<212> DNA

<213> Homo sapiens

<400> 211

```
gctatcaaaa tcatgacatt atgtcacttg gagcaacaca gttgaccgc caaggcagcc 60
tcttcctcca tagatggatg aacgctgtgg ccgctgctcc tkcmctggcc atgcctgay 120
gctgccaaaca ccaactgctcc tctatttata agtcttarta gagttgctga cccagcaata 180
actgaacagc tgatatgtac ctcacactaa gccaggcgct tcatatgtat ctaacttgaa 240
aaatgctgag ctagttacct taacaccatt aacttttact taaaagtttg tttttctttt 300
ttaatcccag tgagctccaa acaagtttta ggaggctccc caaaaccagt gaagacttta 360
actaaaagta gaatttcaaa gtattagaaa ccaaacccca aaattaaatg tgaagatcag 420
tgtctgtact gagctggccc atctggtgga cacaggattt gcgttatcga ctgcaatggt 480
accaggatt cagcgtttct agcatctgtc aggggttaaga aaattggatt gagtacaaaa 540
tacagcagag caaaccgggc tttgaggcaa gggccccatc aagtagtcat gcagtacttt 600
tgttaggggt ctgggtgcaa atcttcctcg tccctccac cttctcctgg cctccttgta 660
aaccctaaacc gccagggtacc tcaattttct tcaagaccag gctgttctta atgttggtta 720
attggtcaag gaaatgggtg agccactgct tgctctgcac atcgtcctca gagtgtcgg 780
tcttcaggca gtacagcagc tgcattggtt tggcctgcag gagtaagtgg cccattccta 840
ggctgtcccc aaagatgtgt cctctgaaga agctggtcag gtagaggggg tgtccactat 900
ggttatagat ggtgaaggag atgctgcccc ggctgagcgt tttgtccacc tgccagggtg 960
acaggagtgg gttgggggca ccacgcagag catcttgtag ctcgcgcaca cctgctggta 1020
ctggagctgg cttgcgtttc cctgtgccac acgcagatcc tgcactgtac tgtccagtca 1080
actgacttca gcaaatgtgt ctgggttcag cagcagattg ctgtgtgagg ccaccagaat 1140
ggaggtgata tcggcctcag tgctcatcct ggaggtggag aagtggtcag agtcctctgt 1200
ggtgaaatgg ccctacacca aagtgggaga cattcagaat cgaggcgaaa ttggcctcag 1260
tgctcctctt ggaggcagag aagcagtagg agtcggtggt gaaatggccc tgtgtgaatg 1320
tggaagacca gcagattgga ggtggaattg gcctcagtgc ttgtcctgga ggtggagaag 1380
cggtcagagt ccttggtggt gaagtggccc tgcacaaaac gttgctcccc cttggccggt 1440
gaaagaataa aagaaagctg gccacttgca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1500
aaaaaaaaaa aaaaaactcg a          1521
```

<210> 212

<211> 1875

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1052)

<223> n equals a,t,g, or c

<220>

127

<221> misc feature  
<222> (1291)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1849)  
<223> n equals a,t,g, or c

<400> 212  
gtctgctggt gtcagaaggc agggaggggtg atgaaggact gacccacatg gactgggatg 60  
tgtgtcggtt atgggcatga ctgcacgttc actctcagtg ggatctgggc aacatggagt 120  
tcattgtcct gttgcttact tactgcaatg tctttggccc tctttttcaa ctgggttcctc 180  
tgttgggccc aaaggttggg agtaggagac agtatcccag gctgacaagg gcttgccytt 240  
taccttgggc acctgtttaa ttttagcct gtgcccttc ccacctttgc cctcccagtg 300  
gttggtatgt ggggaagccca tctcagttcc tgtgaattca tgtctcaaac caaggatgag 360  
cgtctggtct ctgctatgat ggtggtatcc gaggccttcc cctgcccagt ctggtgctg 420  
ccccacattg taccggacac tggattcctg gaccccttc tctttcctt tctttccttc 480  
aggtcacgca gccctgtact gtatccagca ccacagaaac ctcaagtgtt ttcctctgct 540  
ggtttggggc acaaggaagc cttagggat ggaggaaaggc tgttattacc tagagtttac 600  
tcccaggcca gggggctgcc atcttcttca cagacatccc tgaaaggaag cccctttggg 660  
gcagggaggt gaggacttca tctcaacatc ggctgggtgt tggtagggga gcttttyctt 720  
ttctttcctt tttttttgtt tttgttttg tttttgttt tggtaacatg ttaggagtta 780  
atgttgcaaa gagtagttta catcttcact ttctgaagac acttgaattt aggaccgatg 840  
tatctgtgac aagcatgcca gaagtggcag gggccatcag ggctaaccac ttcacaccta 900  
ccatcgtccc atggggatcc aagacctgag ataaagcaac agcctgccca gatccctctg 960  
ttcatcctat cctttccaag gttggtccat gccaacataa cctctgggca tcagacatca 1020  
gcaggctctg gtgcctcagc cctgttaagg gncaggtttc tctttagccc tcttcctgca 1080  
cttgggagca aaggcactac cagtagagaa gggccatcca gccgtgcccc agcctggacc 1140  
cctggggctc agatagaggt gctgagcccc tgtgtcaaa tttgttaaag tttttgttt 1200  
gttccattgt agctcttttt ttttttttt tccctttcct ggtgattgat tttacaaaag 1260  
aaagtaagct gcttagaagg ccctggaagg naagttagga ggagggacaa ggaagatgac 1320  
tagttacgga gggtagagggt tgttttttgc caaaaagcct gggtagagtg atctgaatta 1380  
tctggcacc tctgaatgg aaccccagag tacctcctgt gtggaagggt ccctggattt 1440  
tccctaacac ccacctctc ccccttcagc catgctgatg gcagagaaga taagaacttg 1500  
gagccattt ctcactggag aggaaaactt gtcatctggc tttgcggaga aggttccacc 1560  
ttacgctcgt agtacattat ctttactatg tgctaggata tcatatttaa aaggacaaaa 1620  
aaatgtaaaa tacttgaatg agcttgattt ataacattaa tattattgag agtatctgct 1680  
ttccaggctg aagtgaattc ttcattatc tagtcctgct ttagtccttt gtaatttggt 1740  
gtaattatgc ttttcttttt aatacaaaaa aatgtataaa aataaacact tgaaaaggca 1800  
aaaaaaaaaa aaaaaaaaaa aaaactcgag ggggggcccc tacccaatnc gccggatagt 1860  
gatcgtataa caatc 1875

<210> 213  
<211> 1917  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (798)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (802)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1073)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1748)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1829)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1887)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1891)

<223> n equals a,t,g, or c

<400> 213

```

gaattcggca cgaggcagtg gtgtgatctc agctcactgc aacctccacg tcttgggttc 60
atgcaattgt cctgcctcag cctcccaagt agctgggatt acagacatgt gccaccatgc 120
ccggctaatt tttgtatctt tagtagagac ggggtttcac tatgttggtc aggctgatct 180
caaactcctg acctcaagtg atccaccccc ctccggcctcc caaagtgcta ggattacagg 240
catgagccac catgtctggc cctacttttc ttttatgcct tctttttgga ttaatcaa 300
atttagtttc attacccac tattaacttt ttctattata tattcttttt ttaattaagt 360
gattaccctt gggttgttac atacatcctg aacttcctat agtaaataata catgattaat 420
ttaacctctt cctagcaat gctcagattt tagaacatta taattccatt tagtctcttc 480
taccttttgt tttattgttt tcatgtattg taatcctaaa catattttac accccacaag 540
acaatatatt agtggtgcat atcctcaata ttcatttaga ttaatccata caattactct 600
ttctattgtc ttctactcct tactgaattt ctaggctttt atctgaaatt attttccttc 660
tgctgaaga actacctttt atagtaattt tagtgtaatt ctgcttarga agtattatct 720
gttcttggtt ttctgacaac attttcattt ctcttcatt tttgcaggat gtttttgctg 780
gggtgatctt ctgggtcngt antyctagat tacagttact ttcttcacta cttatattct 840
cactgccacc attttattga aagtcagcac caaatcaatt aaaaactgaa ggtaatatct 900
ctccccctca ggctgttawa aatttttttc yttgaccttg gtttttawta gkgttactgt 960
aatgtgcaa gatgtgmctt tctttawatt catcctgctt gggattttca ggaattcatg 1020
cctcagggct ttatgtcttt cattagtttt gggaaaattt taagccatta acntttcaaa 1080

```

## 129

```

gatcatctct tccctattct ctcttyctct ctctgctatc cttttgraac tccaattmca 1140
tgaaagtttag atttgttcat gttattcctt acgtttctta tgttcttttt tatattttcc 1200
atctttttcc ctctctgagt gtcagctctg tgataaggta gtcttgagga cttgtgtctg 1260
ctggaaggaa ctgatctgac ttggagamcc tcaaaaaagc tctatctctg gatattcatg 1320
aaaagaatag caattagaag caatctgctc aaagtcagca ttgcaactgc ttagggctgc 1380
aatatagggtt gaggcaccaa gagactagca aatattttat agggttacct gagaaacaag 1440
agagccacaa gggactttga taagctctat aatattgtctg taatgttcct gggaatttag 1500
aagggttgtgt gcatgttcaa ggctgcatgc atgttcagga aataccaaca ggggccaagt 1560
tacttattca tctcttactg accttgagac tcagtgttaag caggcaatga aacctaaggc 1620
aaatttataa actgcctgaa ctttgaaggc atgtggaaac tcataaacag cttctctcag 1680
ccagttgcag aagatttact tattcaagtc atttaagaaa accttctaac ccaaaatttc 1740
ccatgctncc tgagatgacc aggacctaga agtagctaaa atagaacaga tttaaaaagt 1800
acataattct gtggagatct gaggttttna ctagcttgaa tgtacaacac acaacctgtg 1860
ggtgggataa attaagcata aacttgncta naaaaaaaaa actcaggggc cggccat 1917

```

&lt;210&gt; 214

&lt;211&gt; 1544

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 214

```

ggcacgagct atagcaatct gggttttctt agccaattga aatgggcatt tattagatca 60
tttaagcatc atatcaatat agtatatttg ggcactttat gataagttct tatgatagat 120
gttcaaaact ctgctcaggt gacattttta tggatccaca tagtttttgt catatatgaa 180
aagaaagcat tgagttgtgc agatggttaa atgtgcattg agttatttct ctggaatttg 240
catgagaatg gaccgacttg tagttgtatt aacttttcta gtgccaggt tagaaagttt 300
gatctgtgta gttttttaaag gcagcatcca aatcacttat attcagaaga aaatggtaac 360
agatttagaa gctgtctata tttcccccac tatccataat acatattatt ggcaatatgg 420
ttttcactct ttgttggttaa cgtatcaaca atgtgcaata gccactaata atcatttggt 480
aatgcatgct tccaagttct gtatttgaaa atctcagact tcatatatgg taagtgatgg 540
agtaatttat aacttttatg ttgaattctt gctactttta aaaattgtgc ttctcctttt 600
ttaaagcata tgacttactt aacagctgat agtcagttac ctggattttt agtatttttt 660
tacatcacia aaagatttct ctgaagtttg cgcaggggtc tatttgtagg cagtttccaa 720
cttactaata agtaaggttc tgaaagttat aagtttagctg tctggaatag atagtctcat 780
agaaaccagg ttgtagatgg tgatttggtt ccttgggcaa cctactgaaa cccattttact 840
atataatgtg gctgaataat attattgata gtgctatagt atttagcaac tgtctgtcaa 900
gtgattttga actctcattt tgaaatctaa ctttcatagc attatactga tgaatttttg 960
gtagtgcgat ttgacttttt ctacctccat tctaccagtt cacagcgcat tctagcagtg 1020
gaaatcaaaa aacctattga gatggaattt gggaggaaag gaggacttac tgatatccct 1080
agctgtagaa agaaagtaac tgggtatcct gtctgaaaga ggaaggatgt gatgatcttc 1140
atggctctgt tgtggagatg tatgtctgct tatacatggc aggcaaccaa ttggagggtt 1200
atatatttta aaaaataaag aaggggcggc cgggcgcctg gctcacgcct gtaatcccaa 1260
cactttggga ggccgaggcg ggcagatcac ggggtcagga gatcgagacc atcctggcta 1320
acacggtgaa accctgtctc cactaaaaat acaaaaaatt agccgggcat ggtagcgggc 1380
gcctgtaatc ccagctactc aggaggcgga ggcaggagaa tggcgcgaa cccgggaggcg 1440
gagcttgagc tgagccgaga tggctccact gcactccagc ctgggcgaca cagcgagact 1500
ccgtctcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa 1544

```

&lt;210&gt; 215

&lt;211&gt; 1762

&lt;212&gt; DNA



<213> Homo sapiens

<400> 215

```

catgagccac tgcacccagc cgatactact atatccccat ttacacagatg agcacatggg 60
caaattgagg gtaaggcact gacccatgat catacagctg agaagtggca aaggcaggat 120
ttgaacctag aacctctggc tccacacact agtaatctaa accactctcc ctacaataca 180
acatacgtgg taaagatgtg tgggtgggcac gcaatcaacg taggtccctt cacagttgct 240
gggagaggca ggaatttgca gttcctccgc gttctcctcc tccgctgccc acctgtcctg 300
ggtcattcct gcagcctgcc ctgccctgcc tgggtctcacc ctccctctgc caacagaagt 360
ctgggcaggg ttttatgggc tctgataagg ccctggcagg gccgaagttc atgagcactt 420
cctctttgca ggagggcgta ggggagggga ccaggtgat ttgggtcctg gctggtcacc 480
aggggaagctg gcaagggaag ggagactagg gtgcgctcta ggagaagccg acagcctgag 540
agtcccagaa gaggagccct gtggaccctc ccctgccagc cactccctta ccctgggtat 600
aagagccacc accgcctgcc atccgccacc atctcccact cctgcagctc ttctcacagg 660
accagccact agcgcagcct cgagcgatgg cctatgtccc cgcaccgggc taccagccca 720
cctacaaccc gacgtgcct tactaccagc ccatcccggg cgggctcaac gtgggaatgt 780
ctgtttacat ccaaggagtg gtcagcgagc acatgaagcg gttcttcgtg aactttgtgg 840
ttgggcagga tccgggctca gacgtgcct tccacttcaa tccgcggtt gacggctggg 900
acaaggtggt cttcaacacg ttgcagggcg ggaagtgggg cagcgaggag aggaagagga 960
gcatgccctt caaaaagggt gccgcctttg agctggtctt catagtctct gctgagcact 1020
acaaggtggt ggtaaatgga aatcccttct atgagtacgg gcaccggctt cccctacaga 1080
tggtcaccca cctgcaagtg gatggggatc tgcaacttca atcaatcaac ttcacggag 1140
gccagccctt ccggccccag ggacccccga tgatgccacc ttaccctggt ccggacatt 1200
gccatcaaca gctgaacagc ctgccacca tgggaaggacc cccaacctt aaccgcctg 1260
tgccatattt cgggaggctg caaggagggc tcacagctcg aagaaccatc atcatcaagg 1320
gctatgtgcc tcccacaggc aagagctttg ctatcaactt caaggtgggc tcctcagggg 1380
acatagctct gcacattaat ccccgcatgg gcaacggtac cgtggtccgg aacagcctt 1440
tgaatggctc gtggggatcc gaggagaaga agatcaccca caaccattt ggtcccgga 1500
agttctttga tctgtccatt cgctgtggct tggatcgctt caaggtttac gccaatggcc 1560
agcacctctt tgactttgcc catcgctctt cggccttcca gaggtggac acattggaaa 1620
tccaggtgta tgtcaccttg tcctatgtcc agatctaatac tattcctggg gccataactc 1680
atgggaaaac agaattatcc cctaggactc ctttctaagc ccctaataaa atgtctgagg 1740
gtgtctcatg aaaaaaaaaa aa 1762

```

<210> 216

<211> 253

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (236)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (238)

<223> n equals a,t,g, or c

<400> 216

```

gggtaaata gtagccagggc cggcaagccc ccgctccccg ggctctcggg gtcgcgcgag 60

```

## 131

```

gatgcttggc acgtaccccg tgtacatact tccccgggcgc ccagcatgga aataaagcac 120
ccascrctgc cctgggcccc tgcgaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagggg ggccgntnta 240
aaaggttccc tcg                                     253

```

&lt;210&gt; 217

&lt;211&gt; 511

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (471)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 217

```

ccccagcggg cgcgggccgg agcacgggya cccagcatgg gggactgct cacacagagg 60
acgctgctca gtctggtsc tgcactcctg tttccaagca tggcgagcat ggcggctata 120
ggcagctgct cgaaagagta ccgctgctc cttggccagc tccagaagca gacagatctc 180
atgcaggaca ccagcagact cctggacccc tatgtaagca cctgggccct tgtggcatct 240
gagtctcaga gaactatggg gttaggaagg gagtgagaag cagggaggac aggcctagcc 300
ccactccata tggccaggtc ggggaactga gtcgctatgt tattccagcc ttaaccctga 360
ggagctaagg ctggccctcc agctttccta gctctgtggt cccggggcgg gactccggac 420
accatcacca tgctmactgc ttactcagtg tgtttctctg acacctgcca ngcttctggt 480
ctaggcaatg ggacgtagca gtgaagcaag a                                     511

```

&lt;210&gt; 218

&lt;211&gt; 2945

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 218

```

ggaattccaa ctatggcctg ctgcctgttt ttggctggtg agctaagaat gattttttaca 60
tttttaaatt attggaaata tcaacaccgg aattatattt catgatatgt gaaaattaca 120
tgaagttcaa atctcagtg ttagaaataa agttttattc gcacacagcc tgctcatttg 180
tttacctatt gtgcatggcc actttcacat tacagtggca gagttgaaca gctgctgcag 240
agactagcca caaaactaat aacgtttact gcttggccct tacagaactt tgccgagccc 300
tcatttaaag taatagattt aaacagtctc cataagcagc tgctggcttt gaaggtaggt 360
gcagccacta gtgcttttct tggcagatcc attgccaagg aacagtttgt taagtaattc 420
ccttgttttg tgtgccaggc tccataaaga aagggttctc acgctcaaat atatgggcaa 480
tacctcatgc tatgtatgta tatgtgattt atttctctct aggggaacaaa cctgtataat 540
tgcttaaatgt agtctcctta aaaggtagaa aagggtctct tgggtcaaata attgtaggaa 600
aaagattgac aatcacagtg ctgagaaggc ctccaataga gaagttggtt tagttgttcc 660
tcgatctccc acctcctcct tttgagctca gcctttttag aattaatcat tgcctcctct 720
tcttgccctt gagtggaagg gatgagggcc atgggctttg tatccctagg aggagaaaga 780
gccagtaagt gaggagcttt taaagccctt tctttgtggg agggggccaca agggggccagg 840
tctcttaggg ctgagaaagc caaggccagc atttctcaga gtgctgtcag gactgtctgc 900
ctcagaatca tctaagggac cagctaaaac agactctggg gccatttcag actcactggg 960
cagtagagct caggaatctg catgatgttg ctgacgaaag cttaggttgg atttcctctt 1020
gggtgtccct cccaagagct tgaagatcct gtctccttcc tcctctgtcc caacctggct 1080
tggaatattg ttgaatgaat aataacacct gccacttacc agtggtttatt ggggtgctgag 1140

```

132

```

ctgatctcat tggatttttt ttttttcttg agacagagtc ttgctctgtc acccagtcac 1200
ccaggctgga ttgcagtggg gtgatctctg ctactgcac cctctgcctc ctgggttcaa 1260
gtgattcctt ctgctcagc ctcccgaata ggtggggcta cagacacacg ccaccatacc 1320
tggccaattt ttgtattttt atagagacgg ggtttcgcca tgttggccag actggtctcg 1380
aactcctgac ttcagctgat ccacatgcct aggcctcaca aagtgctgga attataggtg 1440
tgagccaccg tgcccggcct gatctcattt ggatctttgc agcaatttga tgaattgggt 1500
gttctcgtta tccccagggt acaggcaact gaggcccaga agaaggttgg taatatgtta 1560
atgagttaag acatagcgcc agggttcatg tgggtgaggg tctgacacca gacagatgaa 1620
gggtcgctcg ctacagtgac ttgagtaccc gagctgggac agatttggac ccgatgggtg 1680
gaggaacctc caccctcta atgctggcag aaaggagttt ggggagggca ggggctggag 1740
gaggatgggc ttgccttgt tcaaggcagg cagcagcctt ttccctctca cgggtgggca 1800
gtttctctgc tgcccgagtc cctgggcctc ggagcactaa ggctggccac ctgctaggtg 1860
ggaaggcccc aaacggcttc tcatcctgcc tgccctcact cctaccagaa tgacctcacc 1920
tggcagggag ggtggcccca gggcctgtc agctctgttc ctgccagcca ggagggtcct 1980
ggagtccctc ccaagcctgc cgcaagccca gagggcacat ccaagaggca agtgtaagct 2040
cctgtttcct tcatcctcag cagcacaag ctctggaggc tggaaggcag caggcagggc 2100
cagaaggtat tttcatcttt cctggaactg cgtaaaggc ccctgggcag tgaaggagcc 2160
agagccattt cctgcgtgct tacagcatgc caggtgcctg gccacacact gcccacagga 2220
tcagcttgaa ccctcagcag cccgcctgg tagggccagc cgtcctccca tttcacagat 2280
ggagccgtag gggctctcct caaaagtcac acagttagga gatagccaaa ttcaaatcgt 2340
gggtcatcca tccccgtcca gggctcgttt cttacctacc ttgccccct gctaactcgg 2400
acacctcttg agtttggcat ccaagagcag aacctggatc ccgggggagg gaggcacagg 2460
gaggcgtaga ggatgggaac cagcctcccc tgggtgtgctt gggccgggctt ccccttggc 2520
agttctgctg cccttaactg cggccttggg cagggggcgt aacctttgca ggtgacgctt 2580
gggtctccct gttggaagac cggcaagatg ccgtgtactt actttaagaa gcaaatgaag 2640
gttggcgcg gtgtcacgc ctgtaatcct agcactttgg gaggccgagg tggcgaggatt 2700
acttgaggtc aggagttaa gacctgcca accaactgg tgaaaccctg tctccactaa 2760
aaacacgaaa attagctgga tgtggtagta ggctcctgta gtcgcagcta ctcgggaggc 2820
tgaggcagga gaatcacttg aaccctggg ggcagaggtt gcagtgagcc aagatcgtgc 2880
cactgcactc cagcctggat gacagagtga tactccatct caaaaaaaaaa 2940
aaaaaá

```

&lt;210&gt; 219

&lt;211&gt; 445

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 219

```

ggtaccgggt ccggaattcc cgggtcgacc cagcgtccg ggaactgtga cttccccacc 60
ccaaattcta tggccggcta atgttttgct atggtgacta tcacccatct acctggaagc 120
accagaatgg cttagtacag ctaggagct cagccagatc tcggtgtctg ctgtttgaga 180
ttgtgtggaa ggactattgc taagaagcag gagacagact gaaccagtg ttggccacaa 240
gtgaggactg agaccagggt cacctcttgg ctgaacatgt tagcttggtg gtaaattggc 300
ctgcagtggg tctgcatttt agtggggaat ttgttttggg tcattttggc attcccga 360
ccatcttggt ggttttttgg taaaatgtgg cacccttcc agacctytta gctgtggaam 420
tgagrtattt tagcagggtc ccgtt

```

&lt;210&gt; 220

&lt;211&gt; 522

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<220>  
 <221> misc feature  
 <222> (402)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (417)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (480)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (482)  
 <223> n equals a,t,g, or c

<400> 220  
 cctttaaata atgaataata gtgatagaaa atgtcatttc ttggacaaat gaaaaattga 60  
 aattaatgta tataattaga tattattagc tactcttagg tagcttcatt tgttgaaagt 120  
 ttgacaagtg aatgaagttc acatctggaa atcgttgaac attttctggt catggaactc 180  
 aatggctacg ttagtcggtt atgcttttca ctggttggtt aggggctttg gaagtaaagt 240  
 ccatcaacaa tggatacaga agacctggat ttggaataag ggcaaaattt atttgatggg 300  
 gctgaattgc tctgccagga gcatttggtt tgagatgaaa tggctctctt gagactgagc 360  
 tgccacctgg gcaatatttg ccgctaaggg tctctttatt cnccttactt ggacttnctt 420  
 tcctggaggg aatctcccga aaaaggaaac ttctcttccc cagggggggc ccaatgggtn 480  
 cnagggtctg cttcaaaatg gggtccccaa ctgggtggcat ca 522

<210> 221  
 <211> 1516  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (1493)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1497)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1508)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1509)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1516)  
 <223> n equals a,t,g, or c

<400> 221  
 gaatgagcag gataactgtg tcctgattca tgatgtggac caaaggaaca gcgataaaga 60  
 tatcttttggg gatgcctgtg ataactgcct gagggtctta rataacgacc agaaagacac 120  
 cgatgggggat ggaagaggag atgcctgtga tgatgacatg gatggagatg gaataaaaaa 180  
 cattctggac aactgccc aaatttccaa tcgtgaccaa cgggacaagg atggtgatgg 240  
 tgtgggggat gcctgtgaca gttgtcctga tgtcagcaac cctaaccagt ctgatgtgga 300  
 taatgatctg gttggggact cctgtgacac caatcaggac agtgatggag atgggcacca 360  
 ggacagcaca gacaactgcc ccaccgtcat taacagtgcc cagctggaca ccgataagga 420  
 tgggaattggt gacgagtgtg atgatgatga tgacaatgat ggtatcccag acctggtgcc 480  
 ccctggacca gacaactgcc ggctggtccc caaccagacc caggaggata gcaacagcga 540  
 cggagtggga gacatctgtg agtctgactt tgaccaggac caggtcatcg atcggatcga 600  
 cgtctgcccaga gagaacgcag aggtcacctt gaccgacttc agggcttacc agaccgtggt 660  
 cctggatcct gaaggggatg ccagatcga tcccactgg gtggctcctga accagggcat 720  
 ggagattgta cagaccatga acagtgatcc tggcctggca gtggggtaca cagcttttaa 780  
 tggagttgac ttcgaaggga ccttccatgt gaatacccag acagatgatg actatgcagg 840  
 ctttatcttt ggctaccaag atagctccag cttctacgtg gtcattgtgga agcagacgga 900  
 gcagacatat tggcaagcca cccattccg agcagttgca gaacctggca ttcagctcaa 960  
 ggctgtgaag tctaagacag gtccaggagg gcatctccgg aactccctgt ggcacacggg 1020  
 ggacaccagt gaccagggtca ggctgctgtg gaaggactcc aggaatgtgg gctggaagga 1080  
 caagggtgtcc taccgctggt tcctacagca caggccccag gtgggctaca tcagggtacg 1140  
 attttatgaa ggctctgagt .tgggtggctga ctctggcgtc accatagaca ccacaatgcg 1200  
 tggaggccga cttggcggtt tctgcttctc tcaagaaaac atcatctggt ccaacctcaa 1260  
 gtatcgctgc aatgacacca tccctgagga ctccaagag tttcaaacc agaatctcga 1320  
 ccgcttcgat aattaaacca aggaagcaat ctgtaactgc ttttcggaac actaaaacca 1380  
 tatatatattt aacttcaatt ttcttttagct ttaccacacc caaatatata aaaacgtttt 1440  
 atgtgaatgt ggcaataaag gagaagagat cattttttaa aaaaaaaaaa aanttcnggg 1500  
 gggcccgnc caattn 1516

<210> 222  
 <211> 1387  
 <212> DNA  
 <213> Homo sapiens

<400> 222  
 acagttggct atgttgggtgc cgacctgaca gcaactctgta gggaggctgc catgcatgcc 60  
 ctcttctcata gtgagaagtt ccagggttga ccataagcac ctctcactta ggtggaccag 120  
 tcagctgctg tcgtcccagg gtggagccca ctgctacttc aggaggggccc tgctcagggtg 180  
 tagttaccac aggtgatggc tgagttcaga aacaaccagc ggggaagtgga aggaagaaag 240  
 gcaaaaagca tgaaggggaca gacaactggg aagaaccagg acaatcctgt gattgatgaa 300  
 atagacttcc ttgaagcttt taaaaatatt cagccctcat cgtttcgaag cgtcattgga 360

```

ttaatggata tcaagcctgt tgactgggag gagattggtg gccttgaaga tgtaaaactg 420
aagttaaaac agagcattga gtggcctctg aaattccctt gggaatttgt tagaatgggc 480
ctgacacaac caaagggagt tctcctctat gggccccctg gatgtgctaa aaccactctg 540
gtgagggccc tggccacaag ctgtcactgc tctttcgttt cagtgagtgg agctgatctg 600
ttttcaccgt ttgttggaga ttcagaaaaa gtgttgtctc agatatttcg acaagcaaga 660
gcaagcactc cagcaatttt gtttttggat gaaattgatt caatcttggg agctcgctca 720
gccagcaaga caggatgtga tgttcaagaa cgagttcttt ctgttctcct gaatgaatta 780
gatggtgttg gacttaagac aatagagaga agaggaagta aatcaagtca acaggagttt 840
caagaagttt ttaaccgaag tgtcatgatt attgcagcaa caawtagacc tgatgtgtta 900
gatactgctt tgttacgacc tggaagatta gataagatca tctatatccc acctccagat 960
cacaagggca ggctttctat tttaaaagtc tgtacaaaaa ccatgccaat agggcctgat 1020
gtctccttag aaaacctcgc agcagaaacc tgtttttttt ctggagctga tcttagaaac 1080
ctctgcacag aagctgcttt gctggctctg caagaaaatg gactagacgc aactacagtg 1140
aaacaagagc acttttctaa atcacttaag actgtaaaac cgtcgttaag ttgcaaggac 1200
ttggctttat atgaaaactt atttaagaaa gaaggatttt ctaacgtgga aggtatttaa 1260
aaatcacctt aaactcttgt tcagttcaca ttaattgaaa tgtgaacttg cctgtcgttt 1320
gcaacttcac acttttagaa tttgtgttta tatttcctgt aagtgaataa ataaaaacaa 1380
acaaaaac                                     1387

```

&lt;210&gt; 223

&lt;211&gt; 1506

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 223

```

gaattcggca caggtgggta gaggtgatgc agtgctgaag acctgggccc ctgctcagtg 60
cctttgctct agaatgggtc cagcttggct ttggctactg ggaacaggga tcttggcctc 120
tgtccactgt cagcccttct ttgccatgg agataaaagt ctgcaggggc ctcaaccccc 180
caggcatcag ctctcagagc cagccccgc ctaccacaga atcacacca ccattaccaa 240
ttttgctttg cgtttgtata aagagctggc agcagacgcc cccggaaaca tcttcttctc 300
gccagtgagc atctccacca ccctggccct gctctctctt ggggcccagg ctaacacctc 360
agctctgatc ctggaggggc tgggattcaa cctcacagaa acccctgaag ccgacatcca 420
ccagggttcc cggagcctcc tccacacct tgccctgccc agccccaac tcgaactaaa 480
agtaggaaac tccctgttcc tagacaagcg actaaagcct cggcagcact atttggacag 540
catcaaggag ctttatggag cttttgcttt ttctgccaac ttcacagatt ctgttacaac 600
tgaggaggcag attaatgact atttgagaag gcaaacatac gggcaagtcg tggactgcct 660
cccggagtcc agccaggaca cgttcatggt tcttgccaat tacatcttct tcaaagccaa 720
gtggaagcac cctttcagtc gctaccagac ccagaagcag gaaagtttct ttgtggatga 780
gaggacttct ctccaggctc ccatgatgca ccaaaggaa atgcacagat tcctctatga 840
ccaggatttg gcttgaccg tctccagat agaatacaga ggaaatgcct tggcgctgct 900
ggtcctccct gacccgggga aaatgaagca ggtggaggct gctctgcagc cacagaccct 960
gagaaaaatg ggccaattgc tctgcccag tctgttggat ttgcaacttg caaggttttc 1020
aatttctgga acatataacc tggaagacat acttcccaa attggtctca ccaacatact 1080
caacttagaa gctgacttct caggagtcac tgggcagctc aacaaaacca tctccaaggt 1140
gtcacacaag gcgatggtgg acatgagtga gaaggggacc gaggccgggg ctgcttcagg 1200
cctcctctcc cagccccat ctctgaacac catgtcagac ccacatgccc acttcaacag 1260
gccttctctc ttgctccttt gggaggtcac caccagagc ttactcttcc tgggaaaagt 1320
tgtcaaccca gttgcagggt aaccatggtg ggaggccagg agttatctta tctcatctg 1380
gaccaaacag ataggccaga accagcctgc atcctggggc tgctatgtgg ttcagttaat 1440
cagtgtgcc aagattcta ataaagttgacc ttgggttctg tgaaaaaaaa aaaaaaaaaa 1500
aaaaaa                                     1506

```

## 136

<210> 224  
 <211> 896  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (18)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (40)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (45)  
 <223> n equals a,t,g, or c

<400> 224  
 aaaagctcgg cccttaancc ttactaaagg gaacaaaagn tgganctcca ccgcggtggc 60  
 ggccgctcta caactagtgg atcccccgga ctgcaggaat tcggcacgag aagagcactg 120  
 gccaaagtcag cttcttctga gagagtctct agaagacatg atgctacact cagctttggg 180  
 tctctgcctc ttactcgtca cagtttcttc caaccttgcc attgcaataa aaaaggaaaa 240  
 gaggcctcct cagacactct caagaggatg gggagatgac atcacttggg tacaaactta 300  
 tgaagaaggt ctcttttatg ctcaaaaaag taagaagcca ttaatgggta ttcacacact 360  
 ggaggattgt caatactctc aagcactaaa gaaagtattt gcccaaatg aagaaataca 420  
 agaaatggct cagaataagt tcatcatgct aaaccttatg catgaaacca ctgataagaa 480  
 tttatcacct gatgggcaat atgtgcctag aaatcatgtt tgtagaccct tctttaacag 540  
 ttagagctga catagctgga agatactcta acagattgta cacatatgag cctcgggatt 600  
 tacccttatt gatagaaaac atgaagaaag cattaagact tattcagtca gagctataag 660  
 agatgataga aaaaagcctt cacttcaaag aagtcaaatt tcatgaagaa aacctctggc 720  
 acattgacaa atactaaatg tgcaagtata tagattttgt aatattacta tttagttttt 780  
 ttaatgtgtt tgcaatagtc ttattaaaaat aaatgttttt taaaaaaaaa aaaaaaaaaa 840  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 896

<210> 225  
 <211> 127  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (94)  
 <223> n equals a,t,g, or c

<400> 225  
 ggaggaacct ccagtctcag caccatgaat caaactgcca ttctgaattt gctgccttat 60  
 ctttctgact ctaagtggca ttcaaggtaa gggncatcaa aggggtacttg aatttgtaag 120

atgagat

127

<210> 226  
 <211> 1949  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (1466)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1540)  
 <223> n equals a,t,g, or c

<400> 226  
 ctgagaggca ggtagctgcg gcgcagggct gacggcgggcg agtccacgtg ctccccgcgg 60  
 ccggttgaac ccggttgccg gcgctggctg agaggcaatg tttgctgtct tccattggag 120  
 tgactgaatt tctacatgac ggctttttga caagacttaa aacctgtctt ggatagagaa 180  
 tatttagcca ttacctaata aatgggtatt ttacatgca atgcatgtgg tgaatcagtg 240  
 aagaaaatac aagtggaaaa gcatgtgtct gtttcagaa actgtgaatg cttttcttgc 300  
 attgactgcg gtaaagattt ctggggcgat gactataaaa accacgtgaa atgcataagt 360  
 gaagatcaga agtatggtgg caaaggctat gaaggtaaaa ccacaaaagg cgacatcaaa 420  
 cagcaggcgt ggattcagaa aattagttaa ttaataaaga gaccaaatgt cagcccaaaa 480  
 gtgagagaac ttttagagca aattagtgtc tttgacaacg ttcccaggaa aaaggcāaaa 540  
 tttcagaatt ggatgaagaa cagtttāaaa gttcataatg aatccattct ggaccagggtg 600  
 tggaatatct tttctgaagc ttccaacagc gaaccagtca ataaggaaca ggatcaacgg 660  
 ccactccacc cagtggcaaa tccacatgca gaaatctcca ccaagggttc agcctccaaa 720  
 gtgaaagacg ccgtggaaca gcaaggggag gtgaagaaga ataaaagaga aagaaaggaa 780  
 gaacggcaga agaaaaggaa aagagaaaag aaagaactga aagttagaaa accaccaggg 840  
 aaaactccaa gggattcaga agcctaagaa gcgcaaaaag ggacaggagg ctgaccttga 900  
 ggctggtggg gaggaagtcc ctgaggccaa tggctctgca gggaagagga gcaagaagaa 960  
 gaagcagcgc aaggacagcg ccagtgagga agaggcacgc gtggggcgag ggaagaggaa 1020  
 gcggaggcac tcggaagttg aaacagattc taagaagaaa aagatgaagc tcccagagca 1080  
 tcctgagggc ggagaaccag aagacgatga ggctcctgca aaaggtaaat tcaactggaa 1140  
 gggaactatt aaagcaattc tgaaacaggc ccagacaat gaaataacca tcaaaaagct 1200  
 aaggaaaaag gttttagctc agtactacac agtgacagat gagcatcaca gatccgaaga 1260  
 ggaactcctg gtcactttta acaagaaaat cagcaagaac cctaccttta agttattaaa 1320  
 ggacaaagtc aagcttgtga aatgaacatt tgtgtattta aaaattgaat ccattctgct 1380  
 gacttcttcc ttttactgct gtttataaaa tgtgtaatga attctaaca ctcaaatttt 1440  
 gctttttgaa gctgtatttt taagtnaaga aaatatattt ttggtataac ttttatgaga 1500  
 aaaataaaat atattctggt ccaaaacttct aaaaaaaan ataaaaaaa aagggcggcc 1560  
 gctcgcgac tagackaggg atctttgtca cgtgggtttg ttttctgtct ccgtgcctcc 1620  
 ggcttcccaa agagatccag gtctttgctg ttccaggcg tggggacccc ggccccctat 1680  
 gccgccacgc cgccacaccg cctcaccctg gcttctgtgc tacttggcag ttccatttca 1740  
 ttattttatt tttgtgctgc tttttatcat gatataaatt attgaaaaca gatcacatgt 1800  
 gggcccggtg ctggccgccc ccgccctgcc ccgtcctgcg gccaccacct aatttattgc 1860  
 cgtgcgtcct gctgctgtga ctgcttttgt acctttgcaa taaagaattt tctggtttca 1920  
 gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1949



138

<210> 227  
<211> 1179  
<212> DNA  
<213> Homo sapiens

<400> 227  
accacgcgt cgcggcacgc gtccggccac gcgtccgccc acgcgtccgg gtggcatgtc 60  
ggtcaggcac agcaggggtcc tgtgtccgcg ctgagccgcg ctctccctgc tccagcaagg 120  
accatgaggg cgctggaggg gccaggcctg tcgtgctgt gcctgggtgtt ggcgctgcct 180  
gccctgctgc cggcgccggc tgtacgcgga gtggcagaaa caccaccta cccctggcgg 240  
gacgcagaga caggggagcg gctgggtgtgc gccagtgcc cccaggcac ctttgtgcag 300  
cggccgtgcc gccgagacag cccacgacg tgtggcccg gtccaccgcg ccactacacg 360  
cagttctgga actacctgga gcgctgccgc tactgcaacg tctctgcgg ggagcgtgag 420  
gaggaggcac gggcttgcca cgccaccac aaccgtgct gccgctgcc caccggcttc 480  
ttcgcgcacg ctggtttctg cttggagcac gcacgtgtgc cactggtgc cggcgtgatt 540  
gccccgggca ccccgagcca gaacacgcag tgccagccgt gccccccagg caccttctca 600  
gccagcagct ccagctcaga gcagtgccag cccaccgca actgcacggc cctgggcctg 660  
gccctcaatg tgccaggctc ttctcccat gacaccctgt gcaccagctg cactggcttc 720  
cccctcagca ccagggtacc aggagctgag gagtgtgagc gtgccgtcat cgactttgtg 780  
gctttccagg acatctccat caagaggctg cagcggtgc tgcaggccct cgaggccccg 840  
gagggtctgg gtccgacacc aagggcgggc cgcgcggcct tgcagctgaa gctgcgtcgg 900  
cggctcacgg agctcctggg ggcgaggac gggcgctgc tggcgcggt gctgcaggcg 960  
ctgcgcgtgg ccaggatgcc cgggctggag cggagcgtcc gtgagcgctt cctccctgtg 1020  
cactgatcct ggccccctct tatttattct acatccttgg caccacatt gcactgaaag 1080  
aggctttttt ttaaatagaa gaaatgaggt ttcttaaagc ttatttttat aaagcttttt 1140  
cataaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1179

<210> 228  
<211> 1958  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (374)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (377)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1244)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1300)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1311)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1327)

<223> n equals a,t,g, or c

<400> 228

```

aattcccggg tgcacccacg cgtccgcagc tccctctctc cctctggccc agtcccttcc 60
gcttggtgcc ggggaagctgt gggcggtgat ttaacatgac tcacttgggg gcataggcgc 120
tatgaagttc agtggctggg tgccaggtgg cgccaatgac accctttttc tcagagcccg 180
ggctgaatgg acacctccct caaagccttc cagacccagg gttacggccg ttcccagaga 240
catgttcccc tgctgctggg cacacctgca gaggggaggg aaggtcctgt gtttgctggg 300
gctgctcgtc ctctcacttc ctaccgagca tcatgttgca aacaaatgac cttggcacca 360
ccgttttgca aatngtncct tcttgggctt tactttttgg tctatgtgag caaaatgaac 420
tgaagtcaag gtacgactcc caataacctg ctgtgggatg agagggttt gtcattatgc 480
atctgattag ttatccacgc ccagagctac actttctcga tgcttctcag ctctgactct 540
cacagggcca gggagaaatt tttgtgcccc ctaaatacatg tagttggata caaaacattc 600
cctggaggcc taccattctc aaatccccgt gcagggtctc gtggggtgca acatgaaact 660
cgctctaact ccctacgtgg aggacagaca gacctatcct aactccaaag ccagacacaa 720
gggacaaaagg taccaaaaag gtgcaagggt caagaatgga cgacgctggt cttccaattt 780
gctggaatat ctgtgctggc agaatggtgt cttgtcagca tatatcaagc atcttgccct 840
tgctctgtcc tgccctggcca caaaggacac tcagacaaca ccggcctcat aaatgctgcc 900
tgagaaaaag cctagctagg tacggagggt cagggtatct cagaaaagag aaactgcttc 960
agccaatgct catgagattt accagggaat agcaaaacaag tctagtgcga gccagggttg 1020
ggggagtggt aggggtgatta gcagagatca atctagaaag gaggtcaagg ttctgtaggt 1080
ggggaaaagag ggtgcttgtg tattaaaact tgttttccag cagtttggag atttctcaca 1140
gaactaaaaa tagaactacc attcatccca gcaatcccat tactaggtat atactcaaag 1200
gaaaacaaat tgttctatca aaaagacacc tgtactccta tgtntatcgc agcactattc 1260
acaatagcaa agacatggag taaacccagg tgcccatcan cgggtgaactg nataaagaaa 1320
atgtagncat atgcctacca tggaatacta cgcagctgta aagaggaaaag aaatcatgtc 1380
ctttgcaaca acatggatac agctggaggc cattatgcta agtgaattaa tgcagaaaca 1440
gaaaactaaa tatcacatgt tcttatttgt aagcagaagc taaatattgg gtgcacacag 1500
gcacaaagat gggagcaata aacactgggg attccacaaa gggagcaggc agagggaagg 1560
gttgaaaaac tacctatcag gtcctctgtg cactacttgt gagacagaat cattagaagc 1620
ccaaacctca gcatcacaca atatacttat ataacaaacc tgcacattga cccctgaacc 1680
taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg gggggggggg 1740
ggggaagaag tgggggtggga cgacagtga atctagagta aaatcaagct ggccaagggt 1800
gtcctgcagg ctgtaatgca gtttaatcag agtgccattt ttttttttgt tcaaatagatt 1860
ttaattattg gaatgcacaa tttttttaat atgcaataaa aaagttaa aaacttaaaaa 1920
aaaaaaaaaa aaaaaaaagg gcggccgctc tagaggat 1958

```

<210> 229

<211> 1751

<212> DNA

<213> Homo sapiens

140

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1741)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1742)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 229

```
aattccccggg tgcacccacg cgtccgacaa cttttcttta gaaccacatt attggtcata 60
atccttggtta ctgtcatgag gattgttgca tgggttaaac acaaacacag actagcaatg 120
cacttgaaca aacctggtgg tctttggaaa taaatcacca ttagatttca cctggttatg 180
ctgcatccca taagtccaa atgaatcacc tgcttctcct attaacgaag catttaattc 240
acacacaaat gcttgaattt cccctgtata aatgtagtca tgcgattcaa cttttctaat 300
aagattttgtg aatgctgcat catgatgaaa atgtggatta actgtgggtt gcatgcctgt 360
tgttcatact tcagtgtgag tcacacacaa aacaagatga gttttactta ggtgaaacat 420
tattaaactg tactaacaat acagaaacat attctctttg tcgcttttta tcacaaaaac 480
tgaatggcaa atatgtcttg acattacttg gatgaactgt ggctagcaaa atggaattaa 540
cttagccact ataatttttt aaaacattaa agtttctaaa ttgttttttg gggccgagta 600
acgcagagtc aataaagggtg gttatatgtt aagcttttag atgggtgctta agaattctta 660
tctttttaa tagcagtatt ttttttttaa gaataaattg taaggagcaa ataaggcaga 720
atgccactct accctcaggt caattttatg gtatatgaaa atgccagtaa tatttgtgcc 780
acttgccaac tcggggggagg aggggctttt cccttactgg atacttttgt tatagtttga 840
ctatgtcatt atgttgttta gagagcctcc acaatgagaa gttgccactg cagggctaac 900
tcgccttcag aaataatcag aatgattcaa ggggtcaaacc actttcatcc cttaaaatat 960
agggactaat atttcttttt ctttttttta aaaaaaacat ttcttctgtg gcttagaaat 1020
gtgccagtgt gttcaaaaca tttacaccaa tttcaccaga tttaggacct attaaaaatt 1080
caaacaagtt tctttttttt tttttttttc tgtgtaacag ggatttttaa ataacggact 1140
atatgcattc ttttgttatt tcacacttca gttaaagtga taacaatggt aaactgtgat 1200
cattatcaga ctgactgaat gctttctgat ttccagttag tgatctagtt ctacgtatta 1260
cacagtggtg atatctgtga gtgtaaataa ctggaactgt acactgatta acatgacagt 1320
ttctcttttg ttgttcttat ctgtactgta ttatagtatg tgggtataaa tatctacaag 1380
tatacacaca tatgtacttg tattccacta ttgtaacctg aaagaaagac tatgtattcc 1440
cttttttaat tccgtactgg tatttgtgtt atttaaaaag caaaattctg ctctatttag 1500
ttgtataata ttagaggata ctttgctgtg cacaattcca agtgccttag aacattgttt 1560
agctttccta agtatatata aatgcatata tgtataaaat tgggaaaagt tacctcaata 1620
aaatcattgg gaaatcccaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1680
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1740
nnaaaaaggg c 1751
```

&lt;210&gt; 230

&lt;211&gt; 2153

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 230

```
ccattctaag gaagagccct tctttccacc ccctttatctt acttatttat ttctctctct 60
ttatatcatt atgaactcag ggattcttaa tttatgtact tattttgatg cttaaattgt 120
```

```

cccatatgtg gtctgtgagc cacccttaac actgggttcct ttgctctttg atatgcctac 180
atcatttttt tagtactttt ttgttttcta gcaaaagttg ttggaagctt accatactgt 240
atttttttat tgtggtaaaa tatactttta cattcaagtt accttttta agcgtgtggt 300
tcagtaacat ccagtgagcag tgttcctcag tatccacggg ctgttggttc caggactccc 360
acagatacta aaattcacac tcaagtcctt tattttatat aagtgtgaga tcttagataa 420
cctatgcata ctctcccata tactgtaaat aatctctaga tgatttgtaa tacctaacaa 480
atgctgtgta aatagttgtt acactgtatt gttaacagta cagtaacaga cctgtctgtt 540
cagattcttc ctggcctttt aggggatcac tgacaaaaaa acttagtgca tgttcagtac 600
agacaaccat cttttttttg ctttcgaata tttttgacct gagattggtt gaatccatgg 660
ctgtggaacc catggacaca gaaggccagt ggtacattta cagtgttaca gagctgtcac 720
ccctgtcgat tccagaattt ttccatcatt ccattagcag ctctcccca gcctgctctg 780
ctccggaccc cggcagccac tatctgcttc ctgtctctgt ggatttgtct acattagata 840
gttcacagaa atggaatcac aatatgtgag cttttgtgtc tggcttcttt cacttagcgt 900
gctgttttca aagtcacatc gtgctgcaac atacatgagc gctttattcc atccatgctg 960
taccatacat gagcgcttta ttccatccat gctgtgccat acatcagcgc tttattccat 1020
ccatgctgtg ccatacatca gcgctttatt ccatccatgc tgtaccatac atgagcgctt 1080
tattccatcc gtgctgcacc atacatcagt gctttattcc tttctggct gaataacatc 1140
acattgtatc gataggtcac atctgggttc tccattcacc aaacattggg catttggtt 1200
atttccacct tttggcgcgt gtgaataatg ctgctatgaa catgggtgta caagtttag 1260
tttgaacacc tgcggtcact tttttgggg tatataacct ggagtgaac tgctgggtca 1320
tgcagtaact tgaagtttaa gttactgagg aattgccgga ctgtttccca cagtggctgc 1380
agcagctttt attccagtta gcaatcacga gagcttccca ccttctcacc tacacctgtg 1440
atctgcctct ttcggtgtag ccatccctgt ccatatgagc tggctctctca tcttgccgtg 1500
atgtgcattt cctgatgac tgttgatgtt gagcatcttt tcatgtcctg attgaccatt 1560
tgcgtatctt ctttgagaa atgtctgttc acgtgctttg cctagttttt aaccgggctg 1620
tttatctttt gttattaagc tataagagct ctttatattc caaatgctag acccttaaca 1680
gatctgtgat ttgcaagtat tttctcccat tctgtgggct atctttttac tttcttgata 1740
gtgtgcttct acaaaagttt ttaattatgg taaaatcaca tttattttct cttttgtaac 1800
ttttgggtgc atgtctgaga aaccattgcc aaatcaagat cacaaaaaat tgacgagggc-1860
aggtgcagtg cctcacacct gtaatctcag aactttggga agccaaagat cacttgagcc 1920
caggagttag gaacagccta gacgacatgg taaagccccg tctctacaaa aaatagacag 1980
attagccgca tgtcgtgggtg tctgcctaca gaccagcca ctgaggaggt tgaggtggca 2040
ggattgcctg agtctgggag gttaaggctg cagtgaagctg tgatggagcc gctgtactcc 2100
atcctgggca acagagtgag atccgagacc gtgtctcaaa aaaaaaaaaa aaa 2153

```

&lt;210&gt; 231

&lt;211&gt; 1360

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 231

```

ccacgcgtcc ggaggggagc agcctgcgca gggcaggagc agctggccca ctggcgggcc 60
gcaacactcc gtctcaccct ctgggcccac tgcattctaga ggagggccgt ctgtgaggcc 120
actaccctc cagcaactgg gaggtgggac tgtcagaagc tggcccaggg tgggtggcag 180
ctgggtcagg gacctacggc acctgctgga ccacctcgcc ttctccatcg aagcaggga 240
gtgggagcct cgagccctcg ggtggaagct gacccaagc cacccttcac ctggacagga 300
tgagagtgtc aggtgtgctt cgctcctgg cctcatctt tgccatagtc acgacatgga 360
tgttttattc aagctacatg agcttcagca tgaaaacat ccgtctgcca cgctggctgg 420
cctcggccac caaggagatc cagggttaaaa agtacaagtg tggcctcacc aagccctgcc 480
cagccaacta ctttgcgttt aaaatctgca gtggggccgc aacgtcgtgg gccctactat 540
gtgctttgaa gaccgcatga tcatgagtc tgtgaaaaac aatgtgggca gaggcctaaa 600

```

142

```

catcgccctgg tgaatggaac cacgggagct gtgctgggac agaaggcatt tgacatgtac 660
tctggagatg ttatgcacct agtgaaattc cttaaagaaa ttccgggggg tgcactgggtg 720
ctggtggctc ctacgacgat ccagggacca aaatgaacga tgaaagcagg aaactctttc 780
tgacttgggg agttcctacg caaaacaact gggcttccgg gacagctggg tcttcatagg 840
agccaaagac ctcaggggta aaagcccctt tgagcagttc ttaaagaaca gcccgacac 900
aaacaaatac gagggatggc cagagctgct ggagatggag ggctgcatgc ccccgagcc 960
atthtagggt ggctgtggct cttcctcagc caggggcctg aaaaagctcc tgcctgactt 1020
aggagtcaga gcccggcagg ggctgaggag gaggagcagg ggggtgctgc tggaagggtc 1080
tgcaggtcct tgccccttgt gtcgcccctt tcctcctcgg aaacaaaacc ctcccacagc 1140
mcatctaccc ggaagcccac cctcaaaggg tccttttggg accacctgtt tgtggaaaaa 1200
atggggctcct tttgtcaggg acttctgacg gctggtcctg aggaaggcca aactgcccag 1260
attgagccca attaaatttt atttttctgg ttttgaatac caaaaaaaaa aaaaaaaaaa 1320
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1360

```

&lt;210&gt; 232

&lt;211&gt; 1986

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (6)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 232

```

ggcacnagcg ccgccggggc gcagcatggg gcgcttccgc gggggcctgc ggtgcatcaa 60
gtacctgctg cttggcttca acctgctctt ctggctggct ggatcggccg tcattgcttt 120
tggactatgg tttcggttgc gaggtgccat aaaggagtta tcatcagagg acaagtcacc 180
agagtatttc tatgtggggc tgtatgttct ggttgaggcc ggggccctga tgatggccgt 240
ggggttcttc ggatgctgcg gagccatgcg ggagtcgcaa tgtgtgcttg gatcattttt 300
tacctgcctc ctgggtgatat ttgctgctga agtaaccact ggagtatttg cttttatagg 360
caagggggta gctatccgac atgttcagac catgtatgaa gaggcttaca atgattacct 420
taaagacagg ggaaaaggca atgggacact catcacctc cactcaacat ttcagtgtctg 480
tggaagaaag agctccgaac aggtccaacc tacatgcca aaggagcttc taggacacaa 540
gaattgcacg gatgaaattg agaccataat cagtgttaag ctccagctca ttggaattgt 600
cggatattga attgcagggtc tgacgatctt tggcatgata ttcagcatgg tcctctgctg 660
tgcgatacga aactcacgag atgtgatatg aagctacttc tacatgaaaa ttgcaatcta 720
aagctttcat accaaatgtc acaggagctg tctcccagct catthtttaac actgaaatga 780
cattaggatc taaaataatt tgctgtcaat tgtacatttg catgagtacg tatgtttggc 840
tcattactgg tttaccctt gagtgaatgc ctgtttatga tgactgagag catattcatg 900
tgtgatctgc gtgtttcttg aatatgcttt ataccgtaat gaaatctgtt tgctgggaat 960
tcctgattct tggatataaa gaagaacaac ctatttcgct cccagaaaaa aaagatcaaa 1020
gagctttcag aaactttgag aacttggcta tttagaaaaa gtgataatgg gtcaagtttc 1080
tcagactgta gccattgaaa attagatgca gagaattcag agatttcttc ttaatggaag 1140
taataagctg taagaattga gagatcacia tggagtgtta aaactgactg tgtctaagtt 1200
gggtgtaagg gtttcctggg tttttttata tacatgctct cccagaata cagtaaacca 1260
cagttttaga actaaacaca tctgtaaaac taaatatagc atggaaaatc caatttgaat 1320
aagtcatgct ttcctagaat ttaaaaaata aaaagtcttc ctctggaaag agaagtcaca 1380
cagacaatca tgtgccctat aaaagtgagt gtttatagga ctaaaaaact ttaacaact 1440
ttttaaggaa atatttttgt tcttatacaa aaacatgtaa atattgcttt attactttca 1500
ttttctgacc ctgctgtaaa ctactgcaac cctcacatcc tcaaagggac ttttatgtca 1560

```

## 143

```

aactcttctg tttctccaaa tataaggaaa aaagactaaa gcaagagatc tggcagttga 1620
aaattgtggg aaagagaatt tgtatgggca ctgtatctat gaaatacctc ataacttacg 1680
tttacaatgtt ttcttaactt tttgtatttt tcttggatag ccacctagag aattcttcat 1740
agattaagaa ctacagtttt caccacttaa cataagtaaa acaaagtcct tcataattta 1800
accattagca tctttggcca aaccctaaata aagaaaagca tcttctccta gttgtgtgtg 1860
ggcaacagaa acaagttaag gaaacaaaaa tacttatata tacacaggac caaataatg 1920
ttctttttat gcaaatcccc tgtggaaata aaattttcaa tgtttaaaaa aaaaaaaaaa 1980
aaaaaa 1986

```

<210> 233

<211> 705

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (108)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (680)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (696)

<223> n equals a,t,g, or c

<400> 233

```

ggattacatg tagttattga gaatcctttc gtaattcagt ggcttaatca tgtaatgtct 60
aaatattgtt gtacattagg atgtatacat gtaaatataa gttacatntg tttagcatag 120
acaagcttaa cattgtagat gtttctcttc aaaaatcatc ttaaaccattt gcatttggaa 180
ttgtgttaaa tagaatgtgt gaacactgta ttagtaaaact tcatcacctt tctacttcct 240
tatagtttga acttttcagt ttttgtagtt cccaaacagt tgctcaattt agagcaaatt 300
aatttaacac ctgccaaaaa aaggctgctg ttggcttatc agttgtcttt aaattcaaat 360
gctcatgtga cttttatcac atcaaaaaat atttcattaa tgattcacct ttagctctga 420
aaattaccgc gtttagtaat tatagtgggc ttataaaaac atgcaactct ttttgatagt 480
tatttgagaa ttttggtgaa aaatatttag ctgagggcag tatagaactt ataaaccaat 540
atattgatat ttttaaaaca tttttacata taagtaaact gccatctttg agcataacta 600
catttaaaaa taaagctgca tattttttaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 660
aaaaaaaaar gggggggggg ccccaaaaaa aaccnntttt ttttt 705

```

<210> 234

<211> 838

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (32)

144

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (51)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (822)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (832)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 234

```

taaaccgaa gtgccaaata ataatttaaa anatgttaat ttttttggcc ncctaaat 60
gccctttcca tccattaaaa atgtccaagt tccaagtgat atgtgcccct aatatccacc 120
ttggatgttg gtgggttttt gaatttttgg gtggttaatc cagttttatt ttgaaaagac 180
gtacttgaat agttacagca tatgtttgaa caggaagtag gaacatgcat acacgaagaa 240
atgctaacgg aaggatttgt tatgtttagg atcttccctt ggaaactaaa aatagaatat 300
taatgacatt actgtttgta gaatgacata tgcagatttt ctcataagca gtcatttgtg 360
ttgccagtaa tgtttgagag acatgtaagt tgaaagtgtt gctaaattat aaagctcctt 420
taattcgttg gttttgatcc tcttattctc ttgtcttttc taaatgttaa caaaatata 480
cttaacagat tacatgaaat ttaggaatta tttaaaagtt accattagct ctaaaattaa 540
gattcggatg ctttatttat agtaactgaa gctaataatg ttttatgttt tgattttttg 600
aaatttaatt gtgaagtgca ctgccttctg agttttcaaa tagataacca cttttaatat 660
tacactgctt ataatactaa tgtttacaga tatgtttctg tttataacca tataatacat 720
tggtcttctg atattagttt tttttgcaag tagttatgta aaagagatag ataataaaat 780
attaaataac aaaaaaaaaa raaaargctc gagtaarggc anagtggcat gngccata 838

```

&lt;210&gt; 235

&lt;211&gt; 1410

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 235

```

ccacgcgtcc ggtccctagg agataagagt atcttgcaca gcaggtgcag gtttcccagc 60
agctcaggca agagtccgat gtttgtgcca tctgatcctg atgtctggag agatagccat 120
gtgtgagcct gaatttggca atgacaaggc cagggagccg agcgtgggtg gcaggtggcg 180
agtgtcctgg tacgaacggg ttgtgcagcc atgtctggtc gaactgctgg gctctgctct 240
cttcattctt atcgggtgcc tgtcgggtcat tgagaatggg acggacactg ggctgctgca 300
gccggccctg gccacggggc tggctttggg gctcgtgatt gccacgctgg ggaatatcag 360
tggtggacac ttcaaccctg cgggtgtcct ggcagccatg ctgatcggag gcctcaacct 420
ggatgatgct cttccgtact ggggtctcaca gctgctcggg gggatgctcg gggctgcctt 480
ggccaaggcg gtgagtcctg aggagagggt ctggaatgca tctggggcgg cctttgtgac 540
agtccaggag caggggcagg tggcaggggc gttggtggca gagatcatcc tgacgacgct 600
gctggccctg gctgtatgca tgggtgccat caatgagaag acaaagggcc ctctggcccc 660
gttctccatc ggctttgccg tcaccgtgga tatcctggct gggggccctg tgtctggagg 720

```

## 145

```

ctgcatgaat cccgcccgtg cttttggacc tgcggtggtg gccaccact ggaacttcca 780
ctggatctac tggctgggcc cactcctggc tggcctgctt gttggactgc tcattagggtg 840
cttcattgga gatgggaaga cccgcctcat cctgaaggct cagtgaagca gagctcgtgg 900
gattcctgct gctccagggtg tcctcagctc acctgtccca gactgaggac aggggagttc 960
ctgcatttcc tgccagggca gaggcccaga ggagcgaccc cctgcttcca ctgcttgggc 1020
ctgctttctc agatagactg actgctgagg aggcctctagg ttcttggaaat tcctttgtgc 1080
tcatcagaga cccagcctg gggaacacgc tgcccgact gccagagag cagtgcaaac 1140
accacaacac gagcgtgttt cttgagagga atgtccccga gttggacaag gaggctgttt 1200
ctgcacatca gctcatttcc cgcaccccat ttcttgcttg attgctttgt tgggggcctg 1260
gccacttcct tgctttctcaa gctgacaatt ctactttgc aataaatagt ccagtgtttc 1320
cttccaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1380
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1410

```

&lt;210&gt; 236

&lt;211&gt; 422

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 236

```

aaactattta gtctgtaaca gagccatatg ctgcagggct aactcacagt agaaatgggc 60
aatttcgacg cgctgtttat ctttaccag cttcaccagg cgttcggcaa catcaattgc 120
tttctgccac tcactggtag cctggtagat ttgtagcaac tgttgacg cgccaatgcg 180
gaagtcagtt tcatcgggtca gctgattgaa catgtcttcc gcgcgggtcat ataaccggc 240
ggccatgtaa tcacgcccc gttgttgaat cgccaacaga cgctgttcat aggtcagcga 300
ggcgctttcc attaggggtc gatggatgcg aatagcgcggtt tcaacttcg ccacggaacg 360
ggaacaggtt ttccgagcgt aaggtgggct tcaacgggtg ccgttatcc tgttttaagc 420
at 422

```

&lt;210&gt; 237

&lt;211&gt; 351

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (253)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (322)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 237

```

ctgtccctgc actccgtggc ggaaggcggc tagagcggct cctctgagc tctccgagag 60
attggtcggg acctgaagcg ttgaggttaa gggcaaggca aggagcaacg aggagttttt 120
cgttacgtta gaaaaatttc gttgcgtgct gaaagcgctt ttacctgtgt tgtatgattt 180
aaccttatga aaatggacag tatttccagt ttacaagtg aggaaagaag attaagaaac 240
ttgcctccgc cangcgtggt ggttcactcc ctgtaatccc agcactttcg gcggccgaag 300
caagcggatc acttgaggtc angagttcga agaccagcct gggccaaaca t 351

```



146

<210> 238  
<211> 2682  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (647)  
<223> n equals a,t,g, or c

<400> 238  
gaatacccca ggatttatgt ataaaaacct gcagtgtctg gttattgatg aagctgatcg 60  
tatctttgat gtgggggttg aagaggaatt aaagcaaatt attaaacttt tgccaacacg 120  
tagacagact atgctctttt ctgccacca aactcgaaaa gttgaagacc tggcaaggat 180  
ttctctgaaa aaggagccat tgtatgttgg cgttgatgat gataaagcga atgcaacagt 240  
ggatggtctt gaacagaaga accgaaagaa gaagcttatg gtcttctttt catcttgtat 300  
gtctgtgaaa taccactatg agttgctgaa ctacattgat ttgcccgtct tggccattca 360  
tggaagcaaa aagcaaaata agcgtacaac cacattcttc cagttctgca atgcagattc 420  
gggaacacta ttgtgtacgg atgtggcagc gagaggacta gacattctcg aagtcgactg 480  
gattgttcag tatgaccctc cggatgaccc taaggaatat attcatcgtg tgggtagaac 540  
agccagaggc ytaaatggga gagggcatgc cttgctcatt ttgcgccag aagaattggg 600  
ttttcttcgt tacttgaaac aatccaaggt tccattaagt gaatttngac ttttcctggg 660  
ctaaaatttc tgacattcag tctcagcttg agaaattgat tgaaaagaat tactttcttc 720  
ataagtcagc ccaggaagca tataagtcac acatacgagc ctatgattcc cattctctga 780  
aacagatctt taatgttaat aacctaaatt tgcctcaggt tgctctgtca tttgggtttca 840  
aggtgcctcc ctctcgttgat ctgaacgtca acagtaatga aggcaagcag aaaaagcgag 900  
gaggtgggtg tggatttggc taccagaaaa ccaagaaagt tgagaaatcc aaaatcttta 960  
aacacattag caagaaatca tctgacagca ggcagttctc tcaactgaaca catgccttcc 1020  
tttcatcttg aataactttg tcctaaaatg aatttttttt ccccttgatt taacaggatt 1080  
ttttagact ttagaatttg gacttaccta acaagagtat aaattgactt gggttgcaag 1140  
cactgagcac tgttacttct atcacgtctc tcttttattt ctgggatata aaacaggctt 1200  
taagtttctt ggttgcccaa gggcagagca aggaatatct ggtgtttctt gtgatgataa 1260  
tattttaatt ttaaatatcc ctccctcata caagtgtatg ttaccatttt aatataattc 1320  
tttttgtacc tttccttctt gttttgtgaa gatttttgtg gcatggattg ctgtgctcac 1380  
tgctgtaaaa ggtgacctag tgtactgggc agctgggtggc ggtgcagaaa agagtctcag 1440  
gttatttttt gtttttagtt atttcttggg ccttgacagt atctaagac tcctcctgaa 1500  
aatgctgcag tataaaagag caaagagctt tgggaaatac ctaagaagca ccttaagatt 1560  
aggggtggcat tgcttttata gattccttgat tttaaagcaa caggcctttc tcagggtgtg 1620  
catttttttg agcaaaaact atgggttgta atttgaataa agtgtcacta agcagtata 1680  
acgtttgatg gctggggggg aggaagagga tggaaattgag atgtttgagc ctcatattaca 1740  
tcaatagagg tgtaatgtac tgcatttctt catttggtaa cataacaaag actttcatac 1800  
aaagaacgat gatgctcttc attaagattt gtttaattca aggtgggttg gatttggtaa 1860  
gcctttgcac tctgtagagt acttagaaga caagggcaac ttacttggag ttagagccaa 1920  
gctgtcagac ggtgcccagc acacattaat gttagcttct ttctgagaaa aaaatacctc 1980  
ttccaggccc tgaaacaaaa aatacatttg ctgtgaagat tgaaaatgaa caaagttaga 2040  
aaaaaaaaaca gcaaaatcag tgatttagtc agatgagttt ttcgtttag gagcacttga 2100  
tttctagtgt gttttgtaca gtatataact acaagatagt acattttgta gcagttcaaa 2160  
gccaaagtgt ctatcatcat tttgctgttg tgccagttaa tcataggatc ccattaaata 2220  
agtgtgctaa catcgaatat agagaaaact ggtaaagaac attccagtag gaaaagaaaa 2280  
gaacaatctt ccatttcttg gcttggccac catcaccctg gtccgacctg tcctggactt 2340  
ccaaccttga ctgctgagct cctggcttag cttcttgggt tcctaattcc tgggtgttaa 2400

147

```

taattctctc cacgatcatg tttttctgat ttttttttcc agaaataatg ttttttaaaa 2460
gacaaaaaca aagggaagaa tattttaatta ctgagcagaa gtaaatactg ttgggtatttt 2520
gtacataatc taatttttat atgcatgtty atgcttttta atttttttat caaaaattaa 2580
gtcatctacc tactacttgt aaccagcttg tttcataaca tgttattttc ctgtgtcatt 2640
aaataattac ttcaatgttg aaaaaaaaaa aaaaaaaaaa aa 2682

```

&lt;210&gt; 239

&lt;211&gt; 2254

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 239

```

gataatattt aatgttggtc tgcacatctc tatacagtta actttttggc tttcattctg 60
tatagataag aaaatgttat attataaaca gcctactcag tgcaaataatt tatctgttta 120
tcaaattccac aatatgctgt ataataccgg ttttactata taatctattt tagacatagc 180
tgtttagaac tagagtgtgc tatttttgtg tttttctgat gtgtgggtgct agacaagtta 240
cttttgtgaa caacaaaaat tatccctttt attcctagac aataccacct ttgggtcttg 300
ttaatttcac tgagtataac tatatatattg tatatatata catatatata tatatctacc 360
tatgcccac tggcagctgt atcagagtgc tggatttggg acatgctttt ctctttaaat 420
acataatattc attatataaa ttattctaga gtgtatttaa ttaggataaa attacttcct 480
tagtatggat atttgacatc tatagggtga atttgtttat aaatatggct atatggaaac 540
ttattagcat ttactttatg tttgctactt ggctttacag catatctcct aagctgaaaa 600
ataatttgcc aggccttcaa gatcctaaag aaacttgttt aatggagtaa tatacttttt 660
tttcttatta aggaattgta ttactggcac ctaacacagt tgtattctta gctcctatta 720
tagataatgg gcatttacat aaaatatcct agatggcttg atggcagaat aaacctttcc 780
ctcctacct gagtcagag aaggatggag acgtcctctg ccataacatg ggccataaag 840
caaattcgac atgggatgtt ctgtttcagt atgacctcaa ccagttccat gaactgagtg 900
aaggaccttc attttcaaaag ttatttaata agtagcttaa ttaagccttt ctaccattc 960
tccaagatc tattggcatt attgaaaagc aaagtttatc aaatatctaa ctaaggatgt 1020
agttaacctt attaaatatt gattagaatt gttctgtaat attactgaat ttgtaagatc 1080
tttagcaaaag atttttgagc aatttataaa tgtagagcaa atgtttctgt ttactgcact 1140
ttttgtaact gaaggtgata aattctcaag ccatgattat tggcttccat gcactgcaat 1200
atztatccac aattctagac attttccatt tttgtggaag agttgctgtt accttaatta 1260
taaatgcaat tgtgtggtta atgagagcta atgctagtag ttaacctttt aaagtggatt 1320
ggctacagtt gagggagaaa tctcttttaa tataaatcac atcattcctt aactgcctct 1380
cttggaagaa gattgaaacc ttttttttaa agcacgattt agcatcctaa gcttcctgag 1440
ggtagagatt gtatcttttt gcgtctgcac aatggctagc acatgtcagc atttgacaat 1500
tgtaaataatg taacaagtgt gcccgaatta aaacgttttt cctgggttgt tttgttaaat 1560
ttacaaagta agccaagcct tacgggttaac attctcctct acaaccaagt attaaagcca 1620
catttaaaaa gaccacatga aatgctgatt ctaattgtgt gtaggtcttg aggattaagc 1680
acacaaattt cacaaacttc tgtttgagta aacaaactca gccttctgta aatatacatg 1740
caagtttgga aacagtaata ctgtacctat aaatatatgc tgtctgtttt gtgtacagta 1800
tgtaaaaact ctttttctgc cacactaaaa atgcaagcca tttatgggaa tcctaaaact 1860
agtattgaac taaaactttg ctaatgatct ttattagagg atcgtccaac ttttcaacta 1920
ccytgggttt tcttttcaat tcaactctac actagtctgc ttatttccag ctgtttattt 1980
tattgagtc tgaatttaaa aaaaaaatat tttgattcat tttgtaaata caagctgtac 2040
aaaaaagaga gatttaattgt tgtcttttaa atactccaat tttcattcta atatgaatgt 2100
tgttatattg tacttagaaa ctgtaccttt aatattacat tacctttatt aaaagtgcac 2160
tgaacacatc aatttttagat gtgctttatg tactgttatc ctataataaa acttcagctt 2220
ctaattggaaa aaaaaaaaaa aaaaaaaact cgag 2254

```

148

<210> 240  
<211> 1057  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (958)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (966)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1035)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1053)  
<223> n equals a,t,g, or c

<400> 240  
ttaactcaaa ctctaaagtc ttgagtgttt caaagtcagt cgttacctgt ttaaaagcct 60  
cagccttttag cttattcctc cttcaataca cgggaccttt ggtaatttg gggcaggaaa 120  
actcttaaag taatctctct tgggcagagg cttattgca ccagagggaa aaagtatata 180  
cttcatttgc tgttactcca gttatgcctt aaattcattt gcttggtaat cctatcaacg 240  
rgcactaact tcttagtata ctttaaacac ttagttgggt aacactgaga ttttgttgtc 300  
ctttatTTTT tgctgagatg gagtcagtc gatgttagtc atagctaaca ccgaatttgt 360  
gttgtcattt agacagttac tgattcgatc tgctttatat atgagaacgt atttttaact 420  
attccaagaa ggaagaggta gctaaatgta atccccctt cctatcccc cagaaaactg 480  
aactgtaagt tctaggtaga ctaattggga gcagacacgg agtttttagat gccttagcca 540  
aaccagcag aaacctttca cacagccact catcgtaaga aacgcagatt tttctcttct 600  
catgcttgct tctggttccc tgcatTTgta gtgacagaac tttcactagc aggatataaa 660  
gaaagtaatt atgcttgag tccctcttta ctgggtttga gttaggtgca taacatggaa 720  
aggagtgggt cttcaaagt aatgtgacca ctccgtattg tggagtgact tccctagggc 780  
atcctataca tcctaccaca gaaggccaag ggacagagca ccaacttcag tatccaagaa 840  
attagatcca caactcttga ttttccacac tgaggactgt cgcgagtaag ttgtaagttt 900  
gccgtcttcc ttctggctta gcaggtgctg cagctgtact ctcgactcct gtctgtgnag 960  
cgtganyagg gaaaatgagg agtggagtct atttccaaaa aaaaatgtgg atggagtttt 1020  
ttccttaaag tggcnttcat tggcccaatt cntttt 1057

<210> 241  
<211> 498  
<212> DNA  
<213> Homo sapiens

<220>

149

<221> misc feature  
 <222> (493)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (496)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (497)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (498)  
 <223> n equals a,t,g, or c

<400> 241  
 gagttgatcc tgagatgaag gtggagcggtt acaagcgcac ctttgaccaa aatgaggagc 60  
 tagggctcaa tgacatgaag acagagggct atgaggcagg cctggctccg caacggtagc 120  
 agtgggtggc tcaagggcca gcctccagcg ctgctctttc tgtaggttat ttattagtat 180  
 tggatgaagg cgaaggctgg gagtgtcttt cccaccagcc cttgcccatt gtggggagga 240  
 catctggtct gagtcagaga tctgtgcaca ctttctaaac agcttgtgat gcaagtgtga 300  
 gcctattgtg ttacttgacc ttattttgga agttttgaat tggcctagga ggaaaccag 360  
 aaatgaacca ggggtatgtc atcacttttt tcatatcaag tcctcacct ccttccacat 420  
 aatgctctat cctctaargt tggaactctg aarttgagga argtggaata aagttacacc 480  
 tggaaaaaaaa aanaannn 498

<210> 242  
 <211> 1784  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (1739)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1777)  
 <223> n equals a,t,g, or c

<400> 242  
 ggcacgagcc aacccagcta tggcctatgc caacgagggtg aaacgtgtgg tcagcagtgc 60  
 acaggagaag ggcaggaaga ttgcagcctt cttcgctgag tctctgccca gtgtgggagg 120  
 gcagatcatt cccctgctg gctacttttc ccaagtggca gagcacatcc gcaaggccgg 180  
 aggggtcttt gttgcmgatg agatccaggt tggctttggc cgggtaggca agcacttctg 240  
 ggccttcag ctccagggaa aagacttcgt ccctgacatc gtcaccatgg gcaagtccat 300

## 150

tggcaacggc caccctgttg cctgctggc cgcaaccag cctgtggcga gggcatttga 360  
agccaccggg ttgagtactt caacacgttt gggggcagcc cagtgtcctg cgctgtgggg 420  
ctggccgtcc tgaatgtctt ggagaaggag cagcyccagg atcatgccac cagtgtaggc 480  
agcttcctga tgcagctcct cgggcagcaa aaaatcaaac atcccatcgt cggggatgtc 540  
aggggtgttg ggctcttcat tgggtgtggat ctgatcaaag atgaggccac aaggacacca 600  
gcaactgaag aggctgycta cttggtatca aggctgaagg agaactacgt tttgtgagc 660  
actgatggcc ctgggaggaa matcctgaag ttaagcccc caatgtgctt cagcctggac 720  
aatgcacggc aggtggtggc aaagctggat gccattctga ctgacatgga agagaagggtg 780  
agaagtgtg aaacgctgag gctccagccc taagccagcc ctgctctgcc taagtgtact 840  
ccagaagaaa ctcatctcat ccaaatacac gctattgaga aggcgagcct gacctccctc 900  
ttacagataa agtcagcttt cagaggctca ggggtggggg gcctgccga ggccataatg 960  
ctaccacccc cctcctccta accactggtc tgggtgaata acccagatgt ctgcatcccc 1020  
tcaagtcaat caatttcctt tctgtccact ggggggtggaa tggggtaggg tgggatactt 1080  
taaagtgtc ctgcttaaat aaattagacc agaccagtgt atttctaaag aaaatcctga 1140  
catgcacacc cattaaaaat agtacatttt acagtgtccc agtcatactt ttaattggca 1200  
aattaaaaata atgcaatctg atatattcta tctactaaa ttaaaaaatac tgaatataac 1260  
caactaaata tacttactcc taagactcac taccagtagt ttactttaa ctctgcctta 1320  
gaggctcttc ccacccattt cccattatgg cacatagaga aaaaggcctc tatcactgtc 1380  
cactggagta ataaccactg cttcccctaa ctgcctcaaa gactgtcatt ttatagaaaa 1440  
tttaagacta tctaatacca ctctttccaa actcccagcc aggatagaga cttccaggag 1500  
ttccacctgt ccaccttat ctggctgcca actcctgctc agaaacagaa cctgccacac 1560  
cctgccactg caggccgcam cctcaactcc caactgcca cttgaagcct gaactaccct 1620  
ttccttgacc agagttcagg aggggaagag ctacacctcc ctgcacatga atccactcat 1680  
ttgaaagcac aactgaccct ggatttaagc tggccaggac cctgggagat ctttgggaang 1740  
atTTTTgcct gggTTtaagg ttaacttaaa gaggtgncca gaag 1784

<210> 243

<211> 936

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (840)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (854)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (865)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (905)

<223> n equals a,t,g, or c

151

&lt;400&gt; 243

```
catatgtttg cttgggtag aggtcaaaga ggatcctctg gcatgttttg ctgggttcct 60
gtagtcathtt caacaggatt aactataatc tataattgat agattattga gtgacacaca 120
gcgtgatgct gggcaggccc caagctgaaa agcatctcct ccaacttact ttattcttag 180
caattcattc ctttggtttg aaaattcttc agcatcttca agagtccttt actaatgsat 240
cctttggggg agttgtgcta aattatcaac tcacaaggat gagatkgctg gctctagggg 300
gccagcctgc caacatggat gggctgtccc aggstctcaa gtgagctcag gtctgtacac 360
tgcactccrg ggagagtaaa tgtgcctggg gcatagaatg gagactttgg agtttggagt 420
ttggagtggg tttggggaca tcagcttctc tcttccagtt agtctgataa gtcctttggt 480
gcctggccct ggaaaccact tgtctccga aaatgccatt ctctggaatg tagctgtgga 540
gtagggagag agttggcccc tgtgttctgt aacccaagca agtactgtct cactgccatc 600
ttggggcaga ctccgcagta aggagaatct ctcttgccct tttgtgtttc ttgggtttct 660
cctttgtaaa tacaaggcat agtctctgcc cttccccag attgccagaa gagtgggata 720
tattgttcta gcaatataaa gctctgaggc ctttctgcag gactgtagac accactttgc 780
tgtgatagtg aagaatgtgg gggagtgttg tgagggctag gcgaagcggc ccggccttgn 840
cccattgaca gctncagtct tcctnccctc ataacttttt taacctaaac gaggatttaa 900
aaaanaaaaa caatttttagc tggggcacaa tggctc 936
```

&lt;210&gt; 244

&lt;211&gt; 1381

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1348)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1349)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1350)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1358)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1359)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 244

```
tccgtgggtg ggttgactct gaggatctgc ccctgaacat ctcccagaaa atgctccagc 60
agagcaaaat cttgaaagtc attcgcaaaa acattgttaa gaagtgcctt gagctcttct 120
```

152

```

ctgagctggc agaagacaag gagaattaca agaaattcta tgaggcattc tctaaaaatc 180
tcaagcttgg aatccacgaa gactccacta accgccgccg cctgtctgag ctgctgcgct 240
atcatacctc ccagtctgga gatgagatga catctctgtc agagtatgtt tctcgcatga 300
aggagacaca gaagtccatc tattacatca ctggtgagag caaagagcag gtggccaact 360
cagcttttgt ggagcgagtg cggaaacggg gcttcgaggt ggtatatatg accgagccca 420
ttgacgagta ctgtgtgcag cagctcaagg aatttgatgg gaagagcctg gtctcagtta 480
ccaaggaggg tctggagctg cctgaggatg aggaggagaa gaagaagatg gaagagagca 540
aggcaaagtt tgagaacctc tgcaagctca tgaaagaaat cttagataag aaggttgaga 600
aggtgacaat ctccaataga cttgtgtctt caccttgctg cattgtgacc agcacctacg 660
gctggacagc caatatggag cggatcatga aagcccaggc acttcgggac aactccacca 720
tgggctatat gatggccaaa aagcacctgg agatcaaccc tgaccacccc attgtggaga 780
cgctgcggca gaaggctgag gccgacaaga atgataaggc agttaaggac ctggtggtgc 840
tgctgtttga aaccgccctg ctatcttctg gcttttccct tgaggatccc cagaccact 900
ccaaccgcat ctatcgcatg atcaagctag gtctaggtat tgatgaagat gaagtggcag 960
cagaggaacc caatgctgca gttcctgatg agatcccccc tctcgagggc gatgaggatg 1020
cgtctcgcat ggaagaagtc gattaggtta ggagttcata gttggaaaac ttgtgccctt 1080
gtatagtgtc cccatgggct cccactgcag cctcgagtgc ccctgtccca cctggctccc 1140
cctgctggtg tctagtgttt ttttccctct cctgtccttg tgttgaaggc agtaaaactaa 1200
gggtgtcaag ccccatccct tctctactct tgacagcagg attggatggt gtgtattgtg 1260
gtttatttta ttttcttcat tttgttctga aattaaagta tgcaaaataa agaatatgcc 1320
gtttttatac aaaaaaaaaa aaaaaaannn ggggggggng ccccggtccc matttcccc 1380
c                                                                 1381

```

&lt;210&gt; 245

&lt;211&gt; 779

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (10)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (39)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (41)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (650)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (669)

153

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 245

```
cttttccttn caggtggaaa ggacccttg gtacccatnc ncaagcagtt aggaaaggac 60
ctggctcttt acatatattg gatggctctc atggcaaac ttctcaattc cttaattagt 120
catgtctcag cttcaaggat atcagacagg aatgaaacac acttgaaaat gagattgacc 180
tgagagattt ttttccctaa tctctcatac ctttaattgga aaaataatca attaatctta 240
tgttaattag grtatacaaa gttcaccctc cttgmaagtg actagggcaa gccctgaaga 300
tcttcctcac ctctctttat ctttctataa ctttgtctcc tccagcacca cagggaagac 360
aatcacagtg ggtcaagagc gaccctcttt cacgtgggct ctgcatgacc tctgagacct 420
gcttatgatc agtgcaatga agttagaagt aactgatgat tgggagcctt tgcagatagc 480
tgggcaaatg ggtgatttac ttatcccat tctaaatgga gtgagctctc tttgaggcta 540
agcaaggagg cgttgatatg tagtttctag actttgcctg gagaccctt tggaaatctg 600
tcttcttttt aaactcaact aatatgcctt aatcatctgk gtgtaatggn agtcatccgc 660
tcctcaatnt aaccctyctm ccctggggct ttggctgtcc tcaatgagag tttcatgcag 720
aatggaaaat cctctatatg tacaatctct ctcccectca tttctcttcc tcctcacct 779
```

&lt;210&gt; 246

&lt;211&gt; 1231

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (795)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1219)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1229)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1230)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1231)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 246

```
ccacgcgtcc ggaagaaggc ctaattccta acctgggacc cagagagaga cataagatat 60
ccagagagat atgcaccaag aaactgcaat ttatacaaa acagtcagaa agcagctgaa 120
gacagaatga gagagaaact aagtaaaaga aacttgatgc ctccaaaatg aagagtatgc 180
```



154

```

ctcatttcca tatgtgaact gaaaagctct ccacttttga aataaaggct tactatagag 240
cagccctggg aatagaacta caagacttat aataacttcc tgtttgagtt gaaatgaaaa 300
ctcataaaga atctatgcta ttaacccccct aatttatact tttgtattct tttatgttgt 360
attttgtatt ttatgttgga cttctttttt aaaattttgt atttattttt aattgaaaaa 420
taattgtgta tacttattgt tgtacaacat gatgttttga tatatgtata tgttgtagaa 480
tgactaaatc aagctagtta acatatgcat tacctcctat acttatcatt tatttgtggg 540
gagaacattt aaaatctact ctgttagcaa ttttgaagta tagaatacac tatgtcaact 600
ataatcatgg tggtgtacag taggtctaaa tgtattcatt tctcctatct aactgaaaaa 660
ttgtatcttt tgaccaacat ctccctgggc cctccatctc ctccctggg aactaccatt 720
attttttttt ctttttttta aaaaaaagct tttagtttcg agggtagacg tgtaggtttg 780
ttatatagat aaacncaagt catgggactg tggtgtacag attattttgt cgtccacgta 840
ctaagcctag tgcccaatag ttattttttc tgctcttctc cctcctccta cctctgccca 900
tcaagttggc ctaatgtcta ttgttccctt ctttgaaca accactctaa tctctgcttc 960
taagggttcc tatgtctgac ttctttccct tgattttgtg agattcatcc acgttgtgta 1020
tgcagcagta gtttatttat ttccattatt ggatagtatt ctttgtgtg aacataaatt 1080
gctgatggca gatgtttgaa ttgtttccag tttttgagta ttatgaataa tgctgttgtg 1140
aacaaaaaaaa aaaaaaaaaa aaaaaaaggg cgcccgctct agaggatcca agcttgcgta 1200
cgcgtgcatg aaacgtcana agggctctnn n 1231

```

&lt;210&gt; 247

&lt;211&gt; 851

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (817)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (834)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (842)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (844)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (849)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 247

```

gcggacgcgt gggcgtggat cggctggagc ggggccgccg ccgctgcag caggagctgg 60

```

155

```

acgacgccac catggacctg gagcagcagc ggcagcttgt gagcaccctg gagaagaagc 120
agcgcaagtt tgaccagctt ctggcagagg agaaggcagc tgtacttcgg gcagtggagg 180
aacgtgagcg ggccgaggca gagggccggg agcgtgaggc tcggggccctg tcaactgacac 240
gggcactgga ggargagcag gaggcacgtg aggagctgga gcggcagaac cggggccctgc 300
ggctgagctg gaggcactgc tgagcagcaa ggatgacgtc ggcaagagcg tgcatagarct 360
ggaacgagcc tgccgggtag cagaacaggc agccaatgat ctgcgagcac aggtgacaga 420
actggaggat gagctgacag cggccgaggga tgccaagctg cgtctggagg tgactgtgca 480
ggctctcaag actcagcatg agcgtgacct gcagggccgt gatgaggctg gtgaagagag 540
gcggaggcag ctggccaagc agctgagaga tgcagagggt gagcgggatg aggagcggaa 600
gcagcgcaact ctggccgtgg ctgcccgcaa gaagctggag ggagagctgg aggagctgaa 660
ggctcagatg gcctctgccg gccagggcaa ggaggaggcg gtgaagcagc ttcgcaagat 720
gcaggcccag atgaaggagc tatggcgggg ggtggaggag acacgcacct tccgggagga 780
gatcttctcc cagaatcggg aaagtgaaaa gcgcctnaag ggctgaagc tgangtgctg 840
cngntgcang a 851

```

&lt;210&gt; 248

&lt;211&gt; 1802

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1680)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1747)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1757)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1800)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 248

```

acgcgtccgc ttccatctgc tctggaatta aatatgcatt tcagggtgatt ggagagctac 60
attcccaact cgatggatcc gaagtactgc tgctgactga tggggaggat aacactgcaa 120
gttcttgtat tgatgaagtg aaacaaagtg gggccattgt tcattttatt gctttgggaa 180
gagctgctga tgaagcagta atagagatga gcaagataac aggaggaagt catttttatg 240
tttcagatga agctcagaac aatggcctca ttgatgcttt tggggctytt acatcaggaa 300
atactgatct ctccsagaag tcccttcagc tcgaaagtaa gggattaaca ctgaatagta 360
atgcctggat gaacgacact gtcataattg atagtacagt gggaaaggac acgttctttc 420
tcatcacatg gaacagtctg cctcccagta tttctctytg ggatcccagt ggaacaataa 480
tggaataatt cacagtggat gcaacttcca aaatggccta tctyagtatt ccaggaactg 540
saaaggtggg cacttgggca tacaatctty aagccaaagc gamcccagaa acmttaacta 600

```

## 156

```

ttacagtwac ttctcgagca kaaaaattct tctgtgcctc caatcacagt gaatgctaaa 660
atgaataagg acgtaaacag tttccccagc ccaatgattg tttacgcaga aattctacaa 720
ggatatgtac ctgttcttgg agccaatgtg actgctttca ttgaatcaca gaatggacat 780
acagaagttt tggaactttt ggataatggt gcaggcgctg attctttcaa gaatgatgga 840
gtctactcca ggtattttac agcatatata gaaaatggca gatatagctt aaaagttcgg 900
gctcatggag gagcaaacac tgccaggcta aaattacggc ctccactgaa tagagccggc 960
tacataccag gctgggtagt gaacggggaa attgaagcaa acccgccaag acctgaaatt 1020
gatgaggata ctgagaccac cttggaggat ttcagccgaa cagcatccgg aggtkcattt 1080
gtggtatcac aagtcccaag ccttccttgc ctgaccaata cccaccaagt caaatcacag 1140
accttgatgc cacagttcat gaggataaga ttattcttac atggacagca ccaggagata 1200
atthttgatgt tggaaaagtt caacgktata tyataagaat aagtgcaagt attcttgatc 1260
taagagacag ttttgatgat gctcttcaag taaatactac tgatctgtca ccaaaggagg 1320
ccaactccaa ggaaagcttt gcatttaaac cagaaaatat ctcagaagaa aatgcaacc 1380
acatatttat tgccattaaa agtatagata aaagcaattt gacatcaaaa gtatccaaca 1440
ttgcacaagt aactttgytt atccctcaag caaatcctga tgacattgat cctactccta 1500
ctcctactcc tactcctgat aaaagtcata attctggagt taatatttct acgctggtat 1560
tgtctgtgat tgggtctggt gkaattgkta actttatttt aagtaccacc atttgaacct 1620
taacgaagaa aaaaatcttc aagtagacct agaagagagt tttaaaaaac aaaacaatgn 1680
aagtaaagga tatttctgaa tcttaaaatt catcccatgt gtgatcataa actcataaaa 1740
ataattntaa gatgtcngga aaaggatact ttgattaaaa taaaaacact catggatatn 1800
ta 1802

```

&lt;210&gt; 249

&lt;211&gt; 444

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 249

```

gggtgccttt ctcatggcca cagcagcttg gcttacaacc gtcttcaaac agccaggctg 60
tgccccagaa cttcactggg cttccttcca taactatgga tctgtgagca tcactttaat 120
ttcagagtgt ggaagacacc ttaataagaa tcatgaatca cattttacaa atcaggatata 180
acaggatgta aggttaagtg acctgtccta tcagggccac aaagccagtt aaacttcttt 240
attaactgag tcacttaaaa atcattttatt taaaaacctt ttttggtcca ggaactattc 300
tgggtactgg aaatrraaaac agtggagaca gagagagggg aaatrraaaa caagacaaaa 360
atgattgctt tkgtggagtt tatatattcc actggargaa ggtagatsat aaataaaaagt 420
gaaaaagtac attatwaggt ggga 444

```

&lt;210&gt; 250

&lt;211&gt; 1746

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 250

```

ggcatcagta aggtctgtat ttaaattgtg atgtagacat cataattacc aagacaagaa 60
attgttttga gaaattctct gatgtttttt ttcttcaggt ttcacgtgcc acgatcatgg 120
tgccacggta ctgcagtatg caccctaaaca gcaactccta atctcggggg gtaggaaaag 180
acacgtctgc atttttgaca tcargcaaag gcagctcatt cacacgttcc aggcccatga 240
ctcagctatt aaggctctgg ccttgatcc ctatgaggaa tattttacca caggttcagc 300
agaaggtaac ataaaggttt ggagattgac aggccatggc ctaattcatt catttaaaag 360
tgaacatgct aagcagttcca tatttcgaaa cattggggct ggagtcatgc agattgacat 420
catccagggc aatcggtctt tctcctgtgg tgcagatggc acgctgaaaa ccagggtttt 480

```

## 157

```

gcccaatgct tttaacatcc ctaacagaat tcttgacatt ctataaagat tgggggtttta 540
tttttatata catttcagtt aaaaggcaca ctacagtcac cactaggcaa ttctgctttc 600
taagcagttg tattgaaaac agagaatctc tgtgtagaat ttgaatatga cccaagctga 660
gtattatcta aacaggttgg tggaaatgaat gcgcagtgtac cttattatgc tgacatacta 720
aaaaaaataa aacctagtat tgtatgaagg atagctattc ttacagcat ttagcaaacc 780
tgattcagaa aacatttgag attagcaaatt tagtaacttg aaataatgaa aaggacgttt 840
ataccaaatt aaggaagaaa atggttgctga tttgggtttt tcttcctggt cttaccactg 900
actgaagcat gcctgcagtc tcctcctctg ttgaatgaag gataatcata aggtgtttgt 960
taggagcgtc agaccacctg gaaaactttc ttagctgtgg agcagtgcgc agtgaccagt 1020
tctctgctgt gagaggccgt ttccattctt tcctgctgaa ttttttccct gttagtgttt 1080
atactgagct agtactgtaa cttgcaaatt agtgcaaatt taaatgcaat gttttactca 1140
caatttgcac attcacattt tttggactgc tagtttttct atttaaatat ttgccttcat 1200
gttaggaatg tactatgtga acatgacata tttgtagtta accaaacaca cttctctagt 1260
ccagtttagt actttttctt ttcgtgtatt caaggttaaa cacccaaaca tttaaggata 1320
tgttgaaact acaccaatag agcatttcat atcataatta aaatgaatgt taggcttctt 1380
gtggccagtt aatagttgat gagattggtg acattattta ttgccacagc ctattgtata 1440
aactatgcag agttaatat ttgcttgtaa aatattagcc aatgttgtca ttattttgat 1500
gtatttcctt ggttatgacc aaaaatatgt tgagatactg aaactaatgt ctgtgtgttt 1560
aaatgtttac cagcaaattg tcttatcatg ttaatgagaa tgttcaatgc ctgtgtggta 1620
aatagtaaat acaatggcat aaaagtaact ttctctgaag atgtgatgtt caggctgtga 1680
aatatatatg taaaagaaaa ataatgtta tttgttagaa aaaaaaaaaa aaaaaaaaaa 1740
ctcgta

```

&lt;210&gt; 251

&lt;211&gt; 1935

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 251

```

gaattcggca cgagggagca ttgcccgtca gacagcaact cagagaataa ccagagaaca 60
accagattga aacaatggag gatctttgtg tggcaaacac actctttgcc ctcaatttat 120
tcaagcatct ggcaaaagca agccccaccc agaacctctt cctctcccca tggagcatct 180
cgtccaccat ggccatggtc tacatgggct ccaggggcag caccgaagac cagatggcca 240
aggtgcttca gtttaatgaa gtgggagcca atgcagttac ccccatgact ccagagaact 300
ttaccagctg tgggttcatg cagcagatcc agaagggtag ttatcctgat gcgattttgc 360
aggcacaagc tgcagataaa atccattcat ccttcgctc tctcagctct gcaatcaatg 420
catccacagg gaattattta ctggaaagtg tcaataagct gtttggtgag aagtctgcga 480
gcttcggga agaatatatt cgactctgtc agaaatatta ctctcagaa cccaggcag 540
tagacttctt agaatgtgca gaagaagcta gaaaaaagat taattcctgg gtcaagactc 600
aaaccaaagg caaaatccca aacttgttac ctgaaggttc tgtagatggg gataccagga 660
tggtcctggt gaatgctgtc tacttcaaag gaaagtggaa aactccattt gagaagaaac 720
taaattgggt ttatcctttc cgtgtaaact cggctcagcg cacacctgta cagatgatgt 780
acttgctgta aaagctaaac attggataca tagaagacct aaaggctcag attctagaac 840
tcccatatgc tggagatgtt agcatgttct tgttgcttcc agatgaaatt gccgatgtgt 900
ccactggctt ggagctgctg gaaagtgaat taacctatga caaactcaac aagtggacca 960
gcaaagacaa aatggctgaa gatgaagttg aggtatacat accccagttc aaattagaag 1020
agcattatga actcagatcc attctgagaa gcatgggcat ggaggacgcc ttcaacaagg 1080
gacgggccaa tttctcaggg atgtcggaga ggaatgacct gtttctttct gaagtgttcc 1140
accaagccat ggtgatgtg aatgaggagg gactgaagc agccgctggc acaggaggtg 1200
ttatgacagg gagaactgga catggaggcc cacagtttgt ggcagatcat ctttttcttt 1260
ttcttattat gcataagata accaactgca ttttattttt cggcagatct tcctcaccct 1320

```

158

```

aaaactaagc gtgctgcttc tgcaaaagat tttttagat gagctgtgtg cctcagaatt 1380
gctatttcaa attgccaaaa atttagagat gttttctaca ttttctgct cttctgaaca 1440
acttctgcta cccactaaat aaaaacacag aaataattag acaattgtct attataacat 1500
gacaacccta ttaatcattt ggtcttctaa aatgggatca tgcccattta gattttcctt 1560
actatcagtt tatttttata acattaactt ttactttggt atttattatt ttatataatg 1620
gtgagttttt aaattattgc tcaactgccta tttaatgtag ctaataaagt tatagaagca 1680
gatgatctgt taatttccta tctaataaat gcctttaatt gttctcataa tgaagaataa 1740
gtaggtatcc ctccatgccc ttctgtaata aatatctgga aaaaacatta aacaataggc 1800
aaatatatgt tatgtgcatt tctagaaata cataacacat atatatgtct gtatcttata 1860
ttcaattgca agtatataat aaataaacct gcttccaaac aacaaaaaaa aaaaaaaaaa 1920
aactttgagg gggggg                                     1935

```

&lt;210&gt; 252

&lt;211&gt; 1919

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (253)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 252

```

ataaggcggc atttatcatt cccaccactg acatctactg tataccacat ctgctatgcc 60
atggatacat ggcatacatga tgatgagtc cccccctggg cctgccaaagg ggaaacagag 120
tgcatacccc accataatag ggaaattaat aattgtatta agtggttgaa aaaaaggggg 180
aggatgttca ctcaactgttc cctgtgtagt atcctgcaaa tgcataaatg gtgaactccc 240
catgtcagca ttnttgtgcc catttattta gtaccagac atagtgtctg tctcacagct 300
taatatattg taatgaataa attctgctag tggatatatg tgatctgaac ttacaatgat 360
gggatataga attggcagag tggcagatgt tcacaattgt ctacaagtag atgtgctaga 420
caatggaagg atgcaggcca acctctttga ttacaattga gattcatgtg actattgagc 480
cctggaaatg tagcttgtcc aaattgagat gtgctgtcag tataaaatag ataccagatt 540
ttaaagatgt accaaaaaat gtaactatc tcaattttta tattggtgaa atcaatatgt 600
cttggatatag tggcttaaat aaaacaattt tagcctttct cagtttattt ttctgcaaaa 660
agattaaaaa ttgtacatga agctcatgtt aactttcttt tggtcagtgc tattttaaag 720
gaagtatgag ttgaaaaaaa attgaaataa actatatcat attactagga cttaatatag 780
tggcataccc aggaaatgct tagtaagtgt tcccttcaca ttttaaaatt tgagtataca 840
atcatgtttg acaatataga aatttaattt ttagtgaaac aattctaaac cccttttcca 900
tagacacaag aaagatggca aatttatgct attcctggaa aaatacattg tggcttagca 960
aataagcaag tccccacgtt acttttgttt tgcttcaagt aatacttctg ccagttgtgt 1020
tttatgaatt aaacagggaa cggcatgctg aacttgaaac tagatttgtt cctgcttttt 1080
tcacaatgtg agtagttttg aaaagtcaga tctggccatt tgtctttcct agaatagcat 1140
aactttgttc attgtttttt ttgtttgtct ttctgacaca gaaagactga tgatggtgtc 1200
cactatgtat tcttcaaaac atttggcaca tgctgcacta acctagtcta tcttttctat 1260
cttggaaatt gctcatacaa acctatagc ctagactaga tcccttacct tctctccagt 1320
tcctatcatt caccattttc actgtgcaag acacctcact agtcaccagt gatacagaaa 1380
tgacttttaa gcagttttctg ctcttaaggg cttaccgttt tgtctataag atacacaagt 1440
ataaatgaca agtacaaata acaatgaatg tttaatgctt tacgtttagt gttaagctt 1500
gttgttggaa gagcagcatt ttgacccttg gagaagaaaa actagctgtg gcattccagg 1560
tgagagaacct gacagaggac taagaagtta tctaatagtaa aagacctcag gcaccacctt 1620
cgcataaact ttttccagac aaggctaaat gtgcatgctt cataaccata attcttattt 1680

```

159

```

ttctttaata aatatttttc tacttgtaac actgtgcatt atttcaaact gtttacctgt 1740
ttgtaaagct tgtctcttaa tcaaatttgt cttgaccaa taagtttcct gagggctgga 1800
attatgcctt aactatatct atagtattta acagtgaatc ctttgtataa tgaaagcatc 1860
aacagataat tttaaattga taaataaaaa gcacagtttc aaatggtaaa aaaaaaaaa 1919

```

&lt;210&gt; 253

&lt;211&gt; 2468

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2076)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 253

```

gggtttgaga agattggaca gtgcttcagg caccgtgtac acagcaatgg atgtggccac 60
aggacaggag gtggccatta agcagatgaa tcttcagcag cagcccaaga aagagctgat 120
tattaatgag atcctggta tgagggaaaa caagaacca aacattgtga attacttgga 180
cagttacctc gtgggagatg agctgtgggt tgttatggaa tacttggtg gaggctcctt 240
gacagatgtg gtgacagaaa cttgcatgga tgaaggccaa attgcagctg tgtgccgtga 300
gtktctgcag gctctggagt tcttgcatc gaaccagata acccagagc agagcaaacg 360
gagcaccatg gtaggaaccc catactggat ggcaccagag gttgtgacac gaaaggccta 420
tgggcccaag gttgacatct ggtccctggg catcatggcc atcgaaatga ttgaagggga 480
gcctccatac ctcaatgaaa accctctgag agccttgtag ctcatcgcca ccaatgggac 540
cccagaactt cagaaccag agaagctgtc agctatcttc cgggactttc tgaaccgctg 600
tctcgagatg gatgtggaga agagaggttc agctaaagag ctgctacagc atcaattcct 660
gaagattgcc aagccctct ccagcctcac tccactgatt gctgcagcta aggaggcaac 720
aaagaacaat cactaaaacc aactcacc cagcctcatt gtgccaagcc ttctgtgaga 780
taaatgcaca tttcagaaat tccaactcct gatgccctct tctccttgcc ttgcttctcc 840
catttcctga tctagcactc ctcaagactt tgatccttgg aaaccgtgtg tccagcattg 900
aagagaactg caactgaatg actaatcaga tgatggccat ttctaaataa ggaatttcct 960
cccaattcat ggatatgagg gtggtttatg attaaggggt tatataaata aatgtttcta 1020
gtcttcctgt tgtcaaaatc ctcacctcct tcataacat ctcccacaat taattcttga 1080
ctatataaat ttatggtttg ataattat caatttgtaa tcaattgaga tttctttagt 1140
gcttgctttt ctgtgactca actgccaga cacctcattg tacttgaaaa ctggaacagc 1200
ttgggaatgc catgggggtt gataatctgc cagggacatg aagaggctca gcttcctgga 1260
ccatgacttt ggctcagctg atcctgacat gggagaacaa ccacattttt ctttgtgtgt 1320
gcttctagca gctgttcggg aggacctga cccaayagtg tcccatgct gtttcttgtg 1380
aaatgctctc ggctatgtag cagcttttga ttccctgcat accctaggct gctgcccta 1440
tcctgtccct tgtttataac attgagaggt tttctagggc acatactgag tgagagcagt 1500
gttgagaagt cggggaaaat ggtgactact tttagagcaa ggctgggcat cagcacctgt 1560
ccagctctac ttgtgtgatg tttcaggaac tcagccctt tttctgccta ggataaggag 1620
ctgaaagatt aacttgatc ttctaattgt ccaaactctt tggtcacaat aaagagtctc 1680
caaattagag actgcatgtt agttctggat ggatttggtg gctgacatg ataccctgcc 1740
agctgtgagg ggaccccggt ttttaagatg atggccaagc tctctgcaa tggaaatgct 1800
tacactgggt gttggggatg tttgctacct cctgctattt ttgtggttt ggttctccca 1860
ctatggtagg acccctggcc agcattgtgg cttgtcatgt cagcccat gactaccttc 1920
tcatgctctg aggtactact gcctctgcag cacaaatttc tatttctgtc aataaaagga 1980
gatgaaaata ttctattgga gtatgcctt cttttttctc ttctgtttt ctttctttt 2040
ctaattttt atatgaaata atgagtaagt ttctnctga accatttgag agtggttaagt 2100

```

160

```

tgcagataga atgccccctt accactatat acctgaatgt gtattctttc yttttaaacac 2160
ttttatttta aatataaatt aagagaaatg ggccaaaacc atttgtattg tttaaagaat 2220
aattataaac acacttgat ccaccaaadc aagaaakgga aactgacag taagaacctt 2280
ctctatcttg tcttctcttt ctcatatag ccccccacta agaggtaacc accatcttga 2340
cttttatttta aataactttc ttgcttttct gtatactttc atcacattca ggtgtgttcc 2400
aatacaagta gatttttagtt cggccagttt ttgaacttta aataaacata tcataataga 2460
taaaaaaa 2468

```

&lt;210&gt; 254

&lt;211&gt; 2861

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2861)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 254

```

ggcacarcca cagcttctcc agtggctatg tggagatgga gtttgagttt gaccggctga 60
gggccttcca ggctatgcag gtccactgta acaacatgca cacgctggga gccgtctgc 120
ctggcggggt ggaatgtcgc ttccggcggt gccctgccat ggccctgggag ggggagccca 180
tgccccacaa cctagggggc aacctggggg accccagagc ccgggctgtc tcagtgtccc 240
ttggcgggcg tgtggctcgc tttctgcagt gccgttctt ctttgcgggg ccctggttac 300
tcttcagcga aatctctctt atctctgatg tgggaacaa ttctctctcc gactggggag 360
gcaccttccc gccagccccc tgggtggcgc ctggccacc tcccaccaac ttcagcagct 420
tggagctgga gccagaggc cagcagcccg tggccaaggc cgaggggagc ccgaccgcca 480
tcctcatcgg ctgctgggtg gccatcatcc tgcctctgt gctcatcatt gccctcatgc 540
tctggcggtc gactggcgc aggytcttca gcaaggytga acggagggtg ttggaagagg 600
agctgacggt tcacctctct gtccctgggg aactatcct catcaacaac cgcccaggtc 660
ctagagagcc acccccgtag caggagcccc ggctcgtgg gaatccgccc cactcygtc 720
cctgtgtccc caatggctct gcgttgctgc tctccaatcc agcctaccgc ctcttcttgg 780
ccacttacgc ccgtcccccct cgaggccccg gccccccac accgcctgg gccaaaccca 840
ccaacaccca ggcctacagt ggggactata tggagcctga gaagccaggc gcccgcctc 900
tgcccccacc tcccagaac agcgtcccc attatgccga ggctgacatt gttaccctgc 960
agggcgctac cgggggcaac acctatgctg tgctgcaact gccccaggg gcagtcgggg 1020
atgggcccc cagagtggat ttccctcgat ctgactccg cttcaaggag aagcttggcg 1080
agggccagtt tggggagggt cacctgtgtg aggtcgacag cctcaagat ctggtcagtc 1140
ttgatttccc ccttaatgtg cgtaaggag accctttgct ggtagctgtc aagatcttac 1200
ggccagatgc caccaagaat gccaggaatg atttctgaa agaggatga atcatgtcga 1260
ggctcaagga ccaaacatc attcggctgc tgggcgtgtg tgtgcaggac gaccctct 1320
gcatgattac tgactacatg gagaacggcg acctcaacca gtctctcagt gccaccagc 1380
tggaggacaa ggcagccgag ggggcccctg gggacgggca ggctgcgcag gggccacca 1440
tcagctaccc aatgctgtg catgtggcag ccagatcgc ctccggcatg cgctatctgg 1500
ccacactcaa ctttgtacat cgggacctgg ccacgcggaa ctgcctagt ggggaaaatt 1560
tcaccatcaa aatcgagac tttggcatga gccggaacct ctatgctggg gactattacc 1620
gtgtgcaggg ccgggcagtg ctgccatcc gctggatggc ctgggagtgc atctcatgg 1680
ggaagtccac gactgcgagt gacgtgtggg ctttgggtgt gacctgtgg gaggtgctga 1740
tgctctgtag gggccagccc tttgggcagc tcaccgacga gcaggatcaga gagaacgcgg 1800
gggagttctt ccgggaccag ggccggcagg tgtacctgtc ccggccgctt gcctgcccgc 1860
aggcytatat gagctgatgc ttcgggtgctg gagccgggag tctgagcagc gaccacctt 1920

```

161

```

ttcccagctg catcggttcc tggcagagga tgcactcaac acggtgtgaa tcacacatcc 1980
agctgccccct ccctcaggga gcgatccagg ggaagccagt gacactaaaa caagaggaca 2040
caatggcacc tetgcccctc ccctcccgac agcccatcac ctctaataga ggcagtgaga 2100
ctgcaggttg gctgggceca ccaggggagc tgatgcccct tctccccttc ctggacacac 2160
tctcatgtcc ccttctctgt cttccttctt agaagccccct gtgcccacc cagctggtec 2220
tgtggatggg atcctctcca ccctcctcta gccatccctt ggggaagggt ggggagaaat 2280
ataggataga cactggacat ggcccattgg agcacctggg cccactgga caacactgat 2340
tcctggagag gtggctgcgc cccagcttc tctctccctg tcacacactg gacccactg 2400
gctgagaatc tgggggtgag gaggacaaga aggagaggaa aatgtttcct tgtgcctgct 2460
cctgtacttg tctcagctt gggcttcttc ctctccatc acctgaaaca ctggacctgg 2520
gggtagcccc gccccagccc tcagtcaccc ccacttccca cttgcagtct tgtagctaga 2580
acttctctaa gcctatacgt ttctgtggag taaatattgg gattgggggg aaagagggag 2640
caacggccca tagccttggg gttggacatc tctagtgtag ctgccacatt gatttttcta 2700
taatcacttg gggtttgtac atttttgggg ggagagacac agatttttac actaatatat 2760
ggacctagct tgaggcaatt ttaatcccct gcactaggca ggtaataata aaggttgagt 2820
tttccacaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa n 2861

```

&lt;210&gt; 255

&lt;211&gt; 766

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (107)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (709)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (722)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (732)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 255

```

aaaggggggtc gagtaactca agtggttagaa gttegttgac ttttgactgg ggagaaagga 60
accttaaact tggggaggag aaggaggtcc tggagttgtt acctaanaac aaagatgggg 120
cggaatggag gctacagccc gaaagccagg ccagcagtgg cgttcttctg tgtccccaag 180
tagtggactt gagcccgctg agacctcggc aggagtctcg tcccagggca ggtgggtgtg 240
cggggtgagc cgcggagcgg ttccagctcg ggtaaagagg aagttacctc gggtcctttg 300
cactccaact cggcggcgcc cgagcccgag gggccccagc caaccgacg cccgtgtgtt 360
gtgtgtgtct aacacccggg ccgtgcercg gccgcgccgc ccgcgctgcc cccagctcga 420
ggaggacatc gcggccaagg agaagttgct gcgggtgtcg gaggacgagc gggaccgggt 480

```



162

```

gctggaggag ctgcacaagg cggaggacag cctcctggcc gccgaagagg ccgcgccaag 540
gctgaagccc gacgtagctt ctctgaacag acgcatccag ctggttgagg aagagttgga 600
tcgtgcccag gagcgtcttg caacagcttt gcagaagctg gaggaagctg ataaggcagc 660
agatgagagt gagagaggca tgaaagtcag tgagagtcga gcccaaaang gatgaagaaa 720
anatggaaat tnaggagatc caactgaaag aggcaaaagca cattgc 766

```

&lt;210&gt; 256

&lt;211&gt; 1394

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1238)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 256

```

gccacgcgt ccgagctcag tcagcagaag agataaaagc aaacaggtct gggaggcagt 60
tctgttgcca ctctctctcc tgtcaatgat ggatctcaga aataccccag ccaaattctct 120
ggacaagttc attgaagact atctcttgcc agacacgtgt ttccgcatgc aaatcaacca 180
tgccattgac atcatctgtg ggttcctgaa ggaaagggtg ttccgaggta gctcctaccc 240
tgtgtgtgtg tccaagggtg taaagggtgg ctctcaggc aagggcacca ccctcagagg 300
ccgatctgac gctgacctgg ttgtcttcct cagtcctctc accacttttc aggatcagtt 360
aaatcgccgg ggagagtcca tccaggaaat taggagacag ctggaagcct gtcaaagaga 420
gagagcattt tccgtgaagt ttgaggtcca ggctccacgc tggggcaacc cccgtgcgct 480
cagcttcgta ctgagttcgc tccagctcgg ggagggggtk gagttcgatg tgctgcctgc 540
ctttgatgcc ctggattttg cccgwacagg tcaattgact ggcggctata aacctaaccc 600
ccaaatctat gtcaagctca tcgaggagtg caccgacctg cagaaagagg gcgagttctc 660
cacctgcttc acagaactac agagagactt cctgaagcag cgccccacca agctcaagag 720
cctcatccgc ctagtcaagc actggtacca aaattgtaag aagaagcttg ggaagctgcc 780
acctcagtat gccctggagc tcctgacggg ctatgcttgg gagcgaggga gcatgaaaac 840
acatttcaac acagcccagg gatttcggac ggtcttgga ttagtcataa actaccagca 900
actctgcata tactggacaa agtattatga ctttaaaaac cccattattg aaaagtacct 960
gagaaggcag ctcacgaaac ccaggcctgt gatcctggac ccggcggacc ctacaggaaa 1020
cttgggtggt ggagacccaa agggttggag gcagctggca caagargctg aggcttggt 1080
gaattaccca tgctttaaga attgggatgg gtccccagtg agctcctgga ttctgctggt 1140
gagacctcct gcttcctccc tgccattcat ccctgcccct ctccatgaag cttgagacat 1200
atagctggag accattcttt ccaaagaact tacctctntc gcaaaggcca tttatattca 1260
tatagtgaca ggctgtgctc catattttac agtcattttg gtcacaatcg aggggtttctg 1320
gaattttcac atcccttgtc cagaattcat tcccctaaga gtaataataa ataattctta 1380
acaccaaaaa aaaa 1394

```

&lt;210&gt; 257

&lt;211&gt; 1329

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 257

```

ctcatcctca acctggtgac agacttgaag cccagatgc tgttggaacac agtgccctgt 60
atccccgcct acatcctcta catgtgcacg cggctcgagg accaaaccaa tgatgatctc 120
aagggtcmct ccctgmtgac ctccaccayc aacggcatta agraagtcct gaaraagcac 180

```

## 163

```

artgatgact ttgagatgac gtcattctkg ttatccaaca cctgccacct tcttcaactgt 240
ctgaagcggg acagcgggga tgagggcttc atgactcaga atacwgcaaa gcacaacgaa 300
cactgyctta agaaytttga cctcaccgaa taccgctcagt actgagcgac ctttccattc 360
agatctacca gcagctcwtg aaaattgccg aggggyggtt acagccgatg atagtttctg 420
ccatgttgga aaatgagagc attcaggggtc tatctgggtg gaagcccacy ggctmccrga 480
agcrctcctc cagcatggca gatggggata actcatacyg cctggaagct wtcatccgcc 540
agatgaatgc ctttcatata gtcattgtgt accagggctt ggaccctgag atcatcctgc 600
aggtattcaa acagctcttc tacatgatca acgcagtgac tcttaacaac ctgctcttgc 660
ggaaggacgt ctgctcttgg agcacaggca tgcaactcag gtacaatata agtcagcttg 720
aggagtggct tcggggaaga aaccttcacc agagtggagc agttcagacc atggaacctc 780
tgatccaagc agcccagctc ctgcaattaa agaagaaaac ccaggaggac gcagaggcta 840
tctgctccct gtgtacctcc ctgagcacc agcagattgt caaaatttta aacctttata 900
ctcccctgaa tgaatttgaa gaacgggtaa cagtggcctt tatacgaaca atccaggcac 960
aactacaaga gcggaatgac cctcagcaac tgctattaga tgccaagcac atgtttcctg 1020
ttttgtttcc atttaatcca tcttctctaa ccatggactc aatccacatc ccagcgtgtc 1080
tcaatctgga attcctcaat gaagtctgaa gatgcatgtt tccagcatta gtttgattcc 1140
caatgtgagc aagaaggaag tatatacagt aaagtaaatt caaggatctg ttaaactctg 1200
taaaagtaga tcaaatcaga gattgacagc ctgtggaggg tgctgaacta tacagaatta 1260
gacacaacta tgtcattatt ttttgtacct actgctcaga ataaaaacac ttgaaatatg 1320
aaaaaaaaa                                     1329

```

&lt;210&gt; 258

&lt;211&gt; 2196

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 258

```

aattcggcag agcgggaagt cgctgaagac agagcgatgg tagttctgga ggctcgcctc 60
cggggccgac ccgaggccac agtgccctccg cggtagaccg gacttgggtg acgggctccg 120
ggctcccag gtgaagagca tcgggggctg agggatggaa gggcttaaga cgtccaacaa 180
cagcaccatg caggtgagct tcgtgtgcca gcgtgcagc cagcccctga aactggacac 240
gagtttcaag atcctggacc gtgtcaccat ccaggaaactc acagctccat tacttaccac 300
agcccaggcg aaaccaggag agaccagga ggaagagact aactcaggag aggagccatt 360
tattgaaact cctcgccagg atgggtgtctc tcgcagattc atccccccag ccaggatgat 420
gtccacagaa agtgccaaca gcttcaactc gattggggag gcatctgatg gcggcaccat 480
ggagaacctc agccgaagac tgaagggtcac tggggacctt tttgacatca tgtcgggcca 540
gacagatgtg gatcaccac tctgtgagga atgcacagat actcttttag accagctgga 600
cactcagctc aacgtcactg aaaatgagtg tcagaactac aaacgctgtt tggagatctt 660
agagcaaagt aatgaggatg acagtgaaca gttacagatg gagctaaagg agctggcact 720
agaggaggag aggctgatcc aggagctgga agacgtggaa aagaaccgca agatagtggc 780
agaaaatctc gagaagggtcc aggtgagggc tgagagactg gatcaggagg aagctcagta 840
tcagagagaa tacagtgaat ttaaaccgaca gcagctggag ctggatgatg agctgaagag 900
tgttgaaaac cagatgcgtt atgccagac gcagctggat aagctgaaga aaaccaacgt 960
ctttaatgca accttccaca tctggcacag tggacagttt ggcacaatca ataacttcag 1020
gctgggtcgc ctgcccagtg tccccgtgga atggaatgag ataatgctg cttggggcca 1080
gactgtgttg ctgctccatg ctctggccaa taagatgggt ctgaaatttc agagataaccg 1140
acttgttcct tacggaaacc attcatatct ggagtctctg acagacaaat ctaaggagct 1200
gccgttatac tgtttctgggg ggttgcggtt tttctgggac aacaagtttg accatgcaat 1260
ggkggctttc ctggactgtg tgcagcagtt caaagaagag gttgagaaag gcgagacacg 1320
ttttgtctt ccctacagga tggatgtgga gaaaggcaag attgaagaca caggaggcag 1380
tggcggctcc tattccatca aaaccagtt taactctgag gagcagtgga caaaagctct 1440

```

## 164

```

caagttcatg ctgacgaatc ttaagtgggg tcttgcttgg gtgtcctcac aattttataa 1500
caaatgactt ttttccttag ggggaggttt gccttaaagg cttttaattt tgttttgttt 1560
gcaaacatgt tttaaattaa attcgggtaa tattaacag tacatgttta caataccaaa 1620
aaagaaaaaa tccacaaaag ccactttatt ttaaaatatac atgtgacaga tactttccag 1680
agctacaaca tgccatctat agttgccagc cctggtcagt tttgattctt aaccccatgg 1740
actcctttcc ctttcttctc tgaaaaaac taatttaaata ttgcttttct tttttttaac 1800
tgagttgaat tgagattgat gtgttttcac tggattttta tctctctcaa cttcctgcac 1860
ttaacaatat gaaatagaaa cttttgtctt tactgagatg aggatatgtt tgagatgcac 1920
agttggataa tgtgggaaaa tgacatctaa gctttacctg gtcaccatgt gatgtgatca 1980
gatgcttgaa atttaacact tttcacttgg ttcttatact gaatgccgac tctgctctgt 2040
gttagagata tgaaatgggtg tttgatactg tttgagacat tatggagaga tttaattatt 2100
tgtaataaaa gatttgctgc agtctgaaaa ctgccaggg gtgcactgtt gggtttttct 2160
ttaaaataga gtactttgta ttctgggaaa aaaaaa 2196

```

&lt;210&gt; 259

&lt;211&gt; 567

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (236)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 259

```

gtttacataa gagatccttt agtccactca acggctgaca ttagcagcat ctttaataca 60
actgtttggt caaaggcaag gtggtcctt ttaaagttac acttctagac tcacctgttc 120
tcactccctg ttttaatgta acccagccat gagatgccag ataatagaat tgctacctac 180
tagctgaaca ggaaagaacc tgtgctgttt ctgacacttc ttgttgca tagatnaata 240
caatgggtat tatagagact cagttgcaga aattaacaaa catgctgctt ggttaaaatg 300
ggtagactca tctggctcat tctttattcc atttttagttg gtttgcatct tgcctaagggt 360
gcatactcca aactyttggt attattctcc tgatagtcac actagtagtc tccctggtgt 420
gctataatct ctaaaagctt taaatgtttg cwtgcagcta tccatcgaat gtcaaagggt 480
ctctctttgg ctggaatgac aaaactcaaa ggaatgtgtg atcaggaaga catcataacc 540
tatgaatgat ggaacccaaa atgaatg 567

```

&lt;210&gt; 260

&lt;211&gt; 950

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 260

```

gactaatgaa ataactgttc actattgtgg gttctacttg cagggttcag actaggcaat 60
gtggtacatg ctatacaggc aactgagcag agcattcatg ccactgacct ggtacctcgc 120
ttatgcttaa cattagccaa cctgaaccgt gtgatttatt tcatctgtga caccatcctc 180
tggtgagga gcgtagggtc cacctctggc atcaacaaag agaaatggcg aacgagggtc 240
gtccaccact actactatcc tcttctgctg agccttgtea gggatctgta tgaaatctcc 300
ctgcagatga aacgagttac atgtgacagg gcaaagaaag agaaatcagc atcccaggat 360
cctctttggt tcagcgtggc tgaggaggwa acagaatggc tccaatcctt tctacttctt 420
ttattccgat ctctgaagca gcatectccc ttgctcctgg acacagtga gaacctttgt 480
gatatcctga accctttgga cctgctgggg atctataaat ccaatcctgg catcattgga 540

```

## 165

```

cttggagggtc ttgtgtcctc tatagcaggc atgatcactg tggcatatcc tcagatgaag 600
ctgaagaccc gttagtgttt ttaggccttg aactagtacc tacttttaaa gatggcctct 660
tgggtgggaca gacattttgta taagtcacag gccatgtcat actgtgctta agttcttgtt 720
catgtgagca tttaacaacc tgtgatgtgg gcagagatga ggccaagaac ggagaaggga 780
ggagcatgaa gagttgtatg tttttggagt gctggagtga cttgtgaatt tctgaatatt 840
ttcccttcat ctaacattga ttgaacatct cttatgtgca tagtgggagc ttagtatttg 900
ctgaatgaat aaaaattgaa aggaaaaaat ttaaaaaraa aaaaaaaaaa 950

```

<210> 261

<211> 475

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (444)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (451)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (454)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (470)

<223> n equals a,t,g, or c

<400> 261

```

caaagaattc ggcacgaggt ctgatcttcc tgcggctgaa ccgcccggct gagccgacat 60
tgccgcgctc ttggcgattc ggcccgcgca gctccgcttt cgctacagca tgggtggccta 120
ctggagacag gctggactca gctacatccg atactcccag atctgtgcaa aagcagtgaag 180
agatgcactg aagacagaat tcaaagcaaa tgctgagaag acttctggca gcaacgtaaa 240
aattgtgaaa gtaaagaagg aataatctac cctgactaaa gcttgaaatg ctacatttcc 300
aaggtgaaga tgtgtgggca catgttatgg cagattgaaa aggatctcat tccatgggaa 360
aaaaaaaaat cctgtcttgt tcataaattg acaatgtcaa taaattgaaa tatggttcac 420
tgttaaaaaa aaaaaaaaaa aaangggggg nccnttttaa agaatccaan ttac 475

```

<210> 262

<211> 1244

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1230)

167

```

tggaggctga gaaaaaacac aaacgatttc aggaacttga cagatttatg cactattata 660
caagatttaa aaaccatgag catagttatc agctagaaca acgccttctt aaaacagcca 720
aagaaaagat ggagcaattg agcagagctc tcaaagaaac tgaaggaggc tgtccagata 780
ccactttcat tgaagatgca gttcatgtgc tcttaaaaaac tcggcgcatt ctcaagtgtt 840
cttatccata tggatttttc ttggaaccta aaagcacaaa gaaagaaatt tttgaactaa 900
tgcaaacaga cctagaaatg gtcactgaag accttgccca gaaagtcaat aggccttacc 960
ttcgcacacc ccgccacaag atcatcaaag cagcatgcct tgtacagcag aagaggcaag 1020
aattcctggg catctgtggg ctcgggggag tagctcctgc agactcacca gaagcttcca 1080
aggcgcattt tgstggtggg aacatggggr ttgggggrata tttwgggggt tt 1132

```

&lt;210&gt; 264

&lt;211&gt; 499

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (447)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (466)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (467)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (469)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 264

```

ggcagcagtg aagctgaagt actgcttcac ctgcaagatg ttccggccac cccgaacctc 60
acactgcagt gtctgcgaca actgtgtgga acgatttgac catcactgcc cctgggtggg 120
caactgtgtg gggagacgga actatcgctt cttctacgcg tttattctct ccctctcatt 180
cctgacggcc ttcactctcg cctgtgtggt caccacctg acgttgccgcg ctcagggaag 240
caacttcctc tccactctga aggagacacc agcaagcgtg ctgggagttg gtgatctgct 300
tcttctccat ctggtccatt ctgggcctct cagggtttca cacgtacctc gtcgcctcca 360
acctgactac taatgaagac atcaaagggt cgttggtcca gcaagagggc ggtgagcctc 420
ttgtcaacce tacagcataa agtatnttca ccaatggcgg gtgggnntng ggccttaact 480
tccagctatt gacggggggg                                     499

```

&lt;210&gt; 265

&lt;211&gt; 735

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

168

<220>  
 <221> misc feature  
 <222> (648)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (713)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (730)  
 <223> n equals a,t,g, or c

<400> 265  
 ggagacacca ccattcctct cagcctgtgt ctgtctcaaa ggccccacct cacctcccct 60  
 aaaggcagcc gctgcagtcg ccacaccttt gccctgctg cgatgacctt gtcgccactt 120  
 ctgctgttcc tgccaccgct gctgctgctg ctggacgtcc ccacggcggc ggtgcaggcg 180  
 tcccctctgc aagcgtaga cttctttggg aatgggccac cagttaacta caagacaggc 240  
 aatctatacc tgcggggggc cctgaagaag tccaatgcac cgcttgtcaa tgtgacctc 300  
 tactatgaag cactgtgcgg tggctgccga gccttcctga tccgggagct cttcccaaca 360  
 tggctgttgg tcatggagat cctcaatgtc acgctgggtg cctacggaaa cscacaggaa 420  
 caaawtktca ktggcaggtg ggagttcaag tgccagcatg gagaagagga gtgcaaattc 480  
 aacaagggtg aggcctgcgt gttggatgaa cttgacatgg agctagcctt cctgaccatt 540  
 gtctgcatgg aagagtttga ggacatggag agaagtctgc cactatgctg cagctctacg 600  
 cccaggctgt cgcagaacta tcatgagtggt gcaatgggac gcggcatnag tcatcacgca 660  
 acgccacgac agatctctca gcacaaagat atgtcctggt acgcaatgga acntgagata 720  
 accagtctan ctggt 735

<210> 266  
 <211> 851  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (834)  
 <223> n equals a,t,g, or c

<400> 266  
 ctattggtgt gaacagtgtg atgtacaatt ctctcaagc agtgaactct acctacattt 60  
 ccaggagcac agctgtgatg aacagtactt gtgtcagttc tgtgaacatg aaactaatga 120  
 tccagaagac ttgcatagcc atgtggtaaa tgagcatgca tgtaaattaa tagagttaag 180  
 tgataagtat aacaatggtg aacatggaca gtatagcctc ttaagcaaaa ttacctttga 240  
 caaatgtaaa aacttctttg tatgtcaagt atgtggtttt cggagtagac ttcacacaaa 300  
 tgttaacagg catgttgcta ttgaacatac aaaaattttt cctcatgttt gtgatgactg 360  
 tgggaaaggc ttttcaagta tgctagaata ttgcaagcat ttaaattcac atttatctga 420  
 agggatttat ttatgtcaat attgtgaata ttcaacagga caaattgaag atcttaaaat 480  
 tcatctagat ttcaagcatt cagctgactt gcctcataaa tgtagtgact gcttgatgag 540  
 gtttggaat gaaaggggaat taataagtca cttccagtc catgagacaa cttgattatt 600

## 169

```

ctctttaact tacagaatgt tagtttaaaa taataaattc atcctttttt tggagatgat 660
taaatggatg attgtaaaca caacttatga aatctgcctt taacaagtaa ctttttttaa 720
ttataaaatt ttattggcat tgctccattt tctgtatata aatatatctt taatgtggta 780
ttttcaaaaa aaaaaaaaaa aaaaaaatcc acgcggccgc gaattcccgg gtcnaacaag 840
ctcactaatc c 851

```

```

<210> 267
<211> 1257
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (51)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (118)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1213)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1217)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1238)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1245)
<223> n equals a,t,g, or c

```

```

<400> 267
tcccgggtgt tgggtggatgt ggtggtcgcc aaagaagagt tagccattcc naccgcagat 60
tcaaattcga acaggccaaa gtttcagcct gtatattgcg cgcaatcatc agcggacncg 120
gtgatgaagt gatcgaactg gcgaaaacaa atgggctaagg taaaaagggg ggcatattccg 180
tcataataag gacatgccat gattgattta cgcagtgata ccgttaccgg accaagccgc 240
gccatgctcg aagcgatgat ggccgccccg gttggggacg acgtttacgg agacgaccct 300
accgttaatg ctctgcagga ctacgcagca gagctttccg gtaaagaagc cgccattttt 360
ctgcctaccg gcactcaggc caacctggc gctctgctca gtcactgcga acgcggcgaa 420
gagtatattg tcggtcaggc cgcgcataac tatctgtttg aagccgggtg cgcggcggtg 480
ctgggcagta ttcaaccgca acccatagac gcggctgccg acggcacgct accgctggat 540

```

170

aaagtggcga tgaaaatcaa acccgacgat atccatttcg cccgcaccaa attactcagt 600  
ctggaaaaca cccacaacgg caaagtgttg ccgcggaat acctgaaaga agcatgggaa 660  
tttaccgcg agcgcaatct ggcgtgcat gttgacggtg cgcgcattct taatgccgtg 720  
gtggcttacg gctgcgaact gaaagagatc acgcaatatt gtgattcgtt caccatttgc 780  
ctgtcgaaaag gtcttgggac gccagtcggt tcattactcg tcggtaatcg tgattacatt 840  
aaacgtgccca ttgcgtggcg gaaaatgaca ggtggcgga tgcgccagtc cggcattctg 900  
gctgccgccg ggatatatgc cctgaaaaat aacgttgcg ctttgcagga agaccacgac 960  
aacgctgcct ggatggcgga cagctgcgtg aarcargcg ggatgtgatg cgtcaggaca 1020  
ccaatatgct gtttgttcgc gtcggggaag aaaatgctgc cgcgttaggc gaatacatga 1080  
aagcgagaaa cgtgctgatt aacgcctcgc cgattgtccg cctggtgacg catcttgacg 1140  
tctcgcgcga acaactggcg gaagtcgccg cccactggcg tgcattcctg gcgcgttaag 1200  
gagagaaacg ttncgcnaag cattttagtt ctccgtgnca attgntacat tgtcaac 1257

&lt;210&gt; 268

&lt;211&gt; 1085

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1067)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1081)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1083)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 268

gcaaaatttt agcatctctc aataatcata ctttttctct ttaattatca acaaaatatt 60  
ttcatgttaa gctatctctt gcattcctag aataactcta cttgatcatg atgttttttc 120  
ttttaataat ggaattataa ataagtatac agtttttcta tgaaaatgtt tttatttctc 180  
tggagcatgt acctatggat ggaattacta aatcatatgc tagttctgtg tttactatt 240  
tgaaggattg aaggagtgc agattgtttt ccaaagtggc tgtaccattt tacattccta 300  
cctgcagtgt atgaaggttt caatttctcc acatcctcac caatattatt atctgtcttt 360  
ctgattgtag ccaccttagt ggggtgtgaag tggatatctt gtgacttggg tttgattttc 420  
cctgatggct aatgatattg aacatctatc tttctctgtg cttattgggtc atttgtatat 480  
tttcttttga gaaatgtcta ttccagatcc yttttctgtt tttaaaaaat arctttattg 540  
aggtwtatth gacaaataaa aatttgktgt atatttaaaa tgtatttaaa agaaaattga 600  
gagaaaggac tacagagccc cgaattaata ccaatagaag ggcaatgctt ttagattaaa 660  
atgaagggtg cttaaacagc ttaaagttta gtttaaaagt tgtagggtgat taaaataatt 720  
tgaaggcgat ctttttaaaa gagattaaac cgaagggtgat taaaagacct tgaaatccat 780  
gacgcaggga gaattgcgtc atttaaagcc tagttaacgc atttactaaa cgcagacgaa 840  
aatggaaaaga ttaattggga gtggtaggat gaaacaattt ggagaagata gaagtttgaa 900  
gtggaaaact ggaagacaga agtacgggaa ggcgaagaaa agaatagaga agatagggaa 960  
attagaagat aaaaacatac ttttagaaga aaaaagataa atttaaacct gaaaagtagg 1020



171

aagcaraara aaaaaaaaaa aaaaaaaaaa aaaaaagggc ggccgcncctg gggccccagc 1080  
ntncg 1085

<210> 269  
<211> 1315  
<212> DNA  
<213> Homo sapiens

<400> 269  
ggcggcagcg ccggaagga ggccaagagc gcggggcggcg aggcaagatg gcggcaacca 60  
agaggaaacg gcgtggaggc tttgcagttc aggcgaagaa gccaaaaaga aacgaaatag 120  
atgcggagcc gccagctaag cggcacgcca cagcagagga ggtggaggaa gaagagaggg 180  
accggatccc agggcccggtt tgcaagggaa agtggaaaaa taaggaaacgg attctcatct 240  
tttcttccag aggaataaat tttagaacaa gacatttaat gcaggacttg agaatggtga 300  
tgctcatctc taaagcagat actaaaatgg atcgtaagga taagctatct gtgattaacg 360  
aggtttgtga aatgaagaac tgtaataaat gcatctatct tgaagctaag aaaaaacagg 420  
atctctatat gtggctttca aattcacctc acggaccatc tgctaaattc cttgttcaaa 480  
atattcatac cctcgctgaa ctgaagatga ctggaaaactg tttgaaaggt tctcggtccc 540  
ttttgtcttt tgacctgct tttgatgaat taccacatta tgctttgkta aaagaactct 600  
taattcagat ctttagtaca ccacggtatc atcccaaaag ccaaccattt gtggaccacg 660  
tgtttacttt caccattttg gataatagga tatggtttcg gaactttcag atcatagaag 720  
aagatgctgc tctttagtaa ataggacctc gttttgtctt aaatctcata aagattttcc 780  
agggaagttt tggaggacca actttatatg aaaatcctca ctaccagtca ccaaactatgc 840  
atcggcgtgt cataagatcc atcacagctg caaaatacag agagaaacag caagtgaag 900  
atgtgcaaaa actgagaaag aaagagccga agactcttct tccacatgat cccactgcag 960  
atgtttttgt aacaccagct gaggagaaac caatagaaat acagtgggta aaaccagagc 1020  
caaaagttag tttgaaagca agaaagaaac ggattttaca aaggcaaaga aaaatgaaac 1080  
agaggatgga cagtgggaaa acaaaataag tcaatggaaa cctgatttgt ttttcagtta 1140  
ctttatattt attttgtatt caatgtgtaa atacttttat tatctaatac tatcttacgt 1200  
ctaattagtg tagcattttac aagaaagaaa aattaagatc ttaaaatcag tgattatctt 1260  
tttctaaata aaatatcacc agaattcatc agttaaaaaa aaaaaaaaaa aaaaa 1315

<210> 270  
<211> 2959  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (2948)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2956)  
<223> n equals a,t,g, or c

<400> 270  
ccattccccg gtcgaccac gcgtccgctg gaaatttggg ttctccagaa ggtgggtttcg 60  
atgccatcat gcaagttgca gtttgtggat cactgattgg ctggaggaat gttacacggc 120  
tgctggtgtt ttccacagat gccgggtttc actttgctgg agatgggaaa cttggtggca 180

```

ttgttttacc aaatgatgga caatgtcacc tggaaaataa tatgtacaca atgagccatt 240
attatgatta tccttctatt gctcaccttg tccagaaact gagtgaaaat aatattcaga 300
caatttttgc agttactgaa gaatttcagc ctgtttacaa ggagctgaaa aacttgatcc 360
ctaagtcagc agtaggaaca ttatctgcma attctagcaa tgtaattcag ttgatcattg 420
atgcatacaa ttcccttttc tcagaagtca ttttgaaaaa cggcaaattg tcagaaggmg 480
taacaataag ttacaaatct tactgcaaga acggggtgaa tggaacaggg gaaaatggaa 540
gaaaatgttc caatatttcc attggagatg aggttcaatt tgaaattagc ataacttcaa 600
ataagtgtcc aaaaaaggat tctgacagct ttaaaattag gcctctgggc tttacggagg 660
aagtagaggt tattcttcag tacatctgtg aatgtgaatg ccaaagcgaa ggcatccctg 720
aaagtcctaa gtgtcatgaa ggaaatggga catttgagtg tggcgcgctg aggtgcaatg 780
aagggcggtg tggtagacat tgtgaatgca gcacagatga agttaacagt gaagacatgg 840
atgcttactg caggaaagaa aacagttcag aaatctgcag taacaatgga gagtgcgtct 900
gcgacagtg tgtttgtagg aagagggata atacaaatga aattttattct ggcaaattct 960
gagagtgtga taatttcaac tgtgatagat ccaatggctt aatttggtgga ggaaatgggt 1020
tttgcaagtg tcgtgtgtgt gagtgcaacc ccaactacac tggcagtgca tgtgactgtt 1080
ctttggatac tagtacttgt gaagccagca acggacagat ctgcaatggc cggggcatct 1140
gagagtgtgg tgtctgtaag tgtacagatc cgaagtttca agggcaaacg tgtgagatgt 1200
gtcagacctg ccttggtgtc tgtgctgagc ataaagaatg tgttcagtgc agagccttca 1260
ataaaggaga aaagaaagac acatgcacac aggaatgttc ctattttaac attaccaagg 1320
tagaaagtcg ggacaaatta cccagccgg tccaacctga tcctgtgtcc cattgtaagg 1380
agaaggatgt tgacgactgt tggttctatt ttacgtattc agtgaatggg aacaacgagg 1440
tcattggttca tgtgtggag aatccagagt gtcccactgg tccagacatc attccaattg 1500
tagctggtgt ggttgctgga attgttctta ttggccttgc attactgctg atatggaagc 1560
ttttaatgat aattcatgac agaagggagt ttgctaaatt tgaaaaggag aaaatgaatg 1620
ccaaatggga caggggtgaa aatcctatct ataagagtgc cgtaacaact gtggtcaatc 1680
cgaagtatga gggaaaatga gtactgcccg tgcaaatccc acaacactga atgcaaagta 1740
gcaatttcca tagtcacagt taggtagctt tagggcaata ttgccatggt tttactcatg 1800
tgcaggtttt gaaaatgtac aatatgtata atttttaaaa tgttttatta ttttgaaaat 1860
aatgttgtaa ttcattgccc ggactgacaa aagacttgag acaggatggt tattcttgtc 1920
agctaaggtc acattgtgcc tttttgacct tttcttctg gactattgaa atcaagctta 1980
ttggattaag tgatatttct atagcgattg aaagggcaat agttaagta atgagcatga 2040
tgagagtttc tgtaaatcat gtattaaaac tgatttttag ctttacaat atgtcagttt 2100
gcagttatgc agaatccaaa gtaaatgtcc tgctagctag ttaaggattg ttttaaatct 2160
gttattttgc tatttgcttg ttagacatga ctgatgacat atctgaaaga caagtatgtt 2220
gagagttgct ggtgtaaaat acgtttgaaa tagttgatct acaaaggcca tgggaaaaat 2280
tcagagaggt aggaaggaaa aaccaatagc tttaaaacct gtgtgccatt ttaagagtta 2340
cttaatgttt ggttaacttt atgccttcac tttacaaatt caagccttag ataaaagaac 2400
cgagcaattt tctgctaaaa agtccttgat ttagcactat ttacatacag gccatacttt 2460
acaaagtatt tgctgaatgg ggaccttttg agttgaattt attttattat ttttattttg 2520
tttaatgtct ggtgctttct atcacctctt ctaatctttt aatgtatttg tttgcaattt 2580
tggggtaaga ctttttttat gactactttt tctttgaagt tttagcggtc aatttgcctt 2640
tttaatgaac atgtgaagtt atactgtggc tatgcaacag ctctcaccta cgcgagtctt 2700
actttgagtt agtgccataa cagaccactg tatgtttact tctcaccatt tgagttgccc 2760
atcttgtttc acactagtca cattcttggt ttaagtgcct ttagttttta cagttcactt 2820
tttacagtgc tatttactga agttatttat taaatatgcc taaaatactt aaatcggatg 2880
tcttgactct gatgtatttt awcaggttgt gtgcatgaaa tttttataga taaagragtt 2940
gaggaaanaa aaaaanaaa

```

&lt;210&gt; 271

&lt;211&gt; 2025

&lt;212&gt; DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1339)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1916)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1944)

<223> n equals a,t,g, or c

<400> 271

```
ttatttttaca gcctcaaata tttctcatta tcttgctact tagttcttca tgtttctcct 60
tctgactttt aataatggta ataggaaaac aaaacccaaa gcttttcaga acttcagtggt 120
gaggtttcct attttracaa gttaacttgt aaatactcag gttttacgat gtataattta 180
cctaatagac caaactaact catggagata ttttgaaacta ttatttaggt acaaaacttta 240
taaagaatgt tagtatgtca taaaatataa cattacagct tatttaaaac caaatatagt 300
tgaacatatt taaaatacat tttcacagaa tggatgaatt agttgtttct tcagagttac 360
ttatgaacag ttgaatgctt taaaatgttc tgtctgtagg taacatctaa aacacaagtg 420
ggtttattta aattttttaa atttgaaatt ttttatttgc aaaaaattgt tttatgcttt 480
attatatcgc aaatgagtggt cagatttttg agtaccatg atcatgcttc catttttttt 540
agtttttaaac caccaaacca atatttttcc tttaaatttt aatcttataa tatagaaatc 600
ttatgtaaat gaaattttgt catgtttcaa ataaagagaa ctgaagtaga aaatagaaat 660
gccagtaaac aacataatgt ttaatttaca acttacatta ggggtttggg ggaatgctaa 720
ttatatattg agaataataca ttagaactct tcaaaatggg ctcttctaata gaggtcacta 780
ctgaacaaaa ttgttccctc ttctgttaaa tagaatagggt ttaaatgact agtcaaatga 840
attattttct tcttggttaa taaattaaat cttactttct tttaatgacc aaccttaggt 900
aaaacaaaaa tattgtaatc ctagaaatta tctccagct ttctcacctg aaaatctatt 960
gaagtgatcc ctggtcatcc taataatggg atgagggag tttccagcag atttcagggt 1020
gttcttaaag tttttgttg tcattttctc aatagtagat gaaatcaaga tgcttatgag 1080
catggaaatg tatttaaagt ttttgcttgt gtctcctca gtcagaatag aaaagtaact 1140
gaaatactct tacctttctg tccttgataa aatagtaaag aaaaccaaac aaaccaggc 1200
ctgatgggaa aaatgattcc tttattctag caacttactt tctgttggtta tgggaaatgt 1260
tattaatttc tattactaaa gtccatatca caaaatgata ttaataata accttgggg 1320
aaatcatgaa ttttttttnc tacgtgtgag tataaaagac aaaagttgaa cagcatggaa 1380
tctcattgcc aaattattag tgaatgtata gtccaggtat tctttgagac acacagtatc 1440
attaatttcc gaattgtatt tcagtgttat tttttgttg tgaccactaa gcttctgtct 1500
taatacaaag ctgttacctt ctacagaatt taagtctgaa gatgtaaaga gagaacaggc 1560
cttgtgtaac agaagatact cttttttatg ctccctactg tgatcacaga aaaattaaaa 1620
atccaagtgc tctctagatt tgttgataaa cattttatgc ttgcatttaa acttgaaatg 1680
tatgagcaga atgagacaat cagttaaatc agaaatgaga agtattataa tgtaaaggcc 1740
ttgttttgct gtagcaataa aatgaccaag tgcaatgact tgatttaata aaatcatatt 1800
ttaaagtgc tgstatgaaw atttttggct ataaaatttt accctgactt gttttcaata 1860
actgttacgt aatgcagttt gatgttgtaa cctaacattc caaaaaaaaa attganaggg 1920
ggaatctcaa aatagtatat actncactaa cttgtttaca ggtgctgtat ttaaagcat 1980
```

gcttctctct caaaaagaaa aattaaagga ttttattgcc aaacc

2025

&lt;210&gt; 272

&lt;211&gt; 852

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (767)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (769)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 272

ccaccgcgcca caaggcccag ctaatttttg tatttttagt agagacaggg tttgattatg 60  
ttggacaggc tggctcctaaa ctcttgactt caagtgatcc accgcctcg gcctcccaac 120  
gtgawgggac tatagacatg agccatcgtg cytggccttc ttgawtcttg aatacggggg 180  
tttgaggtga aagcatttca tgaaaactta agttcataca caagagcatc atgaatattc 240  
taaaagaggt atctgtgctt tttttgtgac cacaaaatat tacttcttat gaaatgttta 300  
cactaggtga ggaaaagttc attaattacc tttaaaccgt tccttatttt ttttaagatt 360  
ttaaattgta ttttggtttt tgcctccagt atcctttctg gttgctctgg tttgaattaa 420  
gttcctatta tgctgcagca catatcaacc ttccctaagt aaccatttcc tggaatgtga 480  
agcatcgggt ccattagcag accatatgca gaaatgtcgt gtacttgcac ttcttttttg 540  
tgactcttat aaggctggtt gtgactcaga tcagcttaac tttttatatt atgttatttc 600  
actaactgct acagtcaaaa tgatcaaata tttgtacaat agaaaattat ttaaatTTTA 660  
tttttctact gacatttcta attctagtgt aaatgtttat caataaaaaa ttactttcaa 720  
ttctgagttg gaattatatt tcttttttgt ggctaaatga ggttaancnt ttggaataaa 780  
aaatgacttc aagttttcaa ttttttaaaa taacttaaaa atcttagcaa gggggaaact 840  
tttttttaag gg 852

&lt;210&gt; 273

&lt;211&gt; 571

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (7)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (535)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 273

gcccaantac tttccagccc agtaaggggt atttcaggag agcagtccac tkaaggttct 60

## 175

```

ttccctttaa gatatgtgca ggatcaagtt ggggcacctt ttcagctgag taaccacact 120
ggccgcatca aggtgggtctt tactccgagc atctgtaaag tgacctgcac caagggcagc 180
tgtcagaaca gctgtgagaa ggggaacacc accactctca ttagtgagaa tggtcátgct 240
gccgacaccc tgacggccac gaacttccga gtggtaattt gccatcttcc atgtatgaat 300
ggtggccagt gcagttcaag ggacaaatgt cagtgccttc caaatttcac aggaaaactt 360
tgtcagatcc cagtccatgg tgccagcgtg cstaaacttt atcagcattc ccagcagcca 420
ggcaaggcat tggggacgca tgtcatccat tcaacacata ccttgccctc gaccgtgact 480
agccagcagg agtcaaagtg aaatttcctc cttaacatag tcaatatcca tgtgnaacat 540
cctcctgaag cttccgtcca gatacatcag g                                     571

```

```

<210> 274
<211> 710
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (667)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (689)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (701)
<223> n equals a,t,g, or c

```

```

<400> 274
gtaagtttga gagcatctgc tggaaaacca ctagaatttg caaacggcca cctcaaaata 60
ctccagccag tccactaag ccaaagacca gaatctgaga acagggatgg ggaaattatt 120
cctttctgtg gatgattatg cagctgggcc atgatttcac acccgggggc catgggctaa 180
gatggagggg aaggaaggaa tgtaatgtgt gccctctacc tcttcaccag gcatcatcct 240
ctcactggcc ctggctggca ttcttggcat ctgtattgtg gtggtggtgt ccatttggct 300
tttcagaagg aagagtatca aaaaagggtga taacaaggga gtcatttaca agccagccac 360
caagatggag actgaggccc acgcttgagg tccccggagc tccccgggca catccaggaa 420
ggaccttgct ttgggacctt acacacttcg gctctctgga cacttgcgac acytcaaggt 480
gttctctgta gctcaatctg caaacatgcc aggcctcagg gatcctctgc tgggtgcctc 540
cttgcccttg ggaccatggc caaccagag ccatccgatt cgatggatgg ggatgcactc 600
ttcagaccaa gccagcagga attccaaagc tgcttgctgt aaatgtgtga gattgtgaat 660
gggctgnatt ctggattcaa aaccagccng ctggtgggcc ntaagggttg                                     710

```

```

<210> 275
<211> 595
<212> DNA
<213> Homo sapiens

```

```

<400> 275
taaaagagtg tcctaacagt ccccgggcta gagaggacta aggaaaacag agagagtgtt 60

```

## 176

```

acgcaggagc aagcctttca tttccttggt gggggagggg ggcggttgcc tggagagggc 120
cggggtcggg gaggttgggg ggtgtcagcc aaaacgtgga ggtgtccctc tgcacgcagc 180
cctcgcccgg cgtggcgctg acactgtatt cttatgttgt ttgaaaatgc tatttatatt 240
gtaaagaagc gggcggtgac ccctgctgcc cttgtccctt gggggtcaca cccatccccct 300
ggtgggctcc tgggcgccct gcgcagatgg gccacagaag ggcaggccgg agctgcacac 360
tctccccacg aaggatatct tgtgtcttac tctgtgcaaa gacgcggcaa aaccagtgac 420
cctgggtttt cccacccga gatgaaggat acgctgtatt ttttgccctaa tgtccctgcc 480
tctaggttca taatgaatta aaggttcatg aacgctgcga aaaaaaaaaa aaaaaaatt 540
tgccctatca gtgagtcgga ttaattgtcc gcgcggccgg acatttagta gtagt 595

```

<210> 276

<211> 1172

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (119)

<223> n equals a,t,g, or c

<400> 276

```

tactatttat agcttttagat agggcctccc ttccctcttt ctttctttgt tctctttcat 60
taaacccttt cccagttttt ttttttact ttaaaccctg ctctcatgg ccttggccnt 120
ttctgaagct gcttctcttt ataaaatagc ttttgccgaa acatagtttt tttttagcag 180
atcccaaaat ataataaagg ggatgggtggg atatttgtgt ctgtgttctt ataatatatt 240
attattcttc cttggttcta gaaaaataga taaatatatt tttttcagga aatagtgtgg 300
tgtttccagt ttgatgttgc tgggtggttg agtgagtga ttttcatgtg gctgggtggg 360
tttttgcttt tttctcttgc cctgttctct gtgccttctg atggggctgg aatagttgag 420
gtggatggtt ctaccctttc tgccttctgt ttgggaccca gctgggtgtc tttggtttgc 480
tttcttcagg ctctagggtt gtgctatcca atacagtaac cacatgcggc tgtttaaagt 540
taagccaatt aaaatcacat aagattaaaa attccttctt cagttgcact aaccacgttt 600
ctagaggcgt cactgtatgt agttcatggc tactgtactg acagcgagag catgtccatc 660
tggtggacag cactattcta gagaactaaa ctggctaac gagtcacagc ctcagctgtg 720
ctgggacgac ccttgtctcc ctgggtagga ggggggggaa tgggggaggg ctgatgaggc 780
cccagctggg gctgttgtc tgggaccctc cctctctga gaggggaggg ctggtggctt 840
agcctgggca ggtcgtgtct cctcctgacc ccagtggctg cggtgagggg aaccaccctc 900
ccttgctgca ccagtggcca ttagctcccg tcaccactgc aaccagggt cccagctggc 960
tgggtcctct tctgccccca gtgcccctcc ccttgggctg tgttggagtg agcacctcct 1020
ctgtaggcac ctctcacact gttgtctgtt actgattttt tttgataaaa agataataaa 1080
acctggtact ttctaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1140
aaaaagggag gccgctcgcg atctagaact ag 1172

```

<210> 277

<211> 780

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (161)

<223> n equals a,t,g, or c

177

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (773)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 277

```
cgcgagacaag gccaggctag ccttgagctc cgctcgggcag ggcgcggga ttggtgtccg 60
gcagagcgtg agccagcggg gcgamgtcgg cgagcgggag tgaaagaaga aaagctagag 120
agcgaaggca aagccgagga gagagggccg cggtcggcga nggaatctga ctgcacgggt 180
gcgtgcgctc acttcgggag gctccctcag scgggcggct ccgstagtgg ctaaaggcaa 240
agcattccgg ggcgcggcgc atgaagttga gcttcgtccc tgctagccgc cgctttctcc 300
ccaaaaatac atcctagcct taatgtttat gcctccattg cccagttct tatctgtttt 360
gctcaatgtc tcatagctac aagaaggcaa tttctgacga agccctccgt sccttccaaa 420
tggattatth tggcgggctt ycaccgggac agtatgccac ccgaatgact ggacaagtgc 480
acgggagcgg ctgtcatttg cggagtgcgc cttgcgatct aggcgcctca cagcgmaayt 540
atccagtaat ttctctgaaa tcgatgctgg tttgttttcc caaggcaaat cagcagctta 600
tacagacatt ggggccacaa agccggtgga acaacgggag acggcttcct gagtgtcagg 660
tcctccaaga tgagcttaaa mttcgggtgg tgggcaggyt cgtaggcggg aaaggscgt 720
gtccagatgr atgcaktcca tgtatatatt gatgaaagac acgtatacca ttnggtcaag 780
```

&lt;210&gt; 278

&lt;211&gt; 2375

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (9)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (920)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 278

```
cggcagcgna ccaagatggc ggcgcctgt gagggacaag cgtttgccgt aggggtgaaa 60
agaattgggg tgcagtagtt cgctccccag aagggaaccc ccagaaaatc cggcagctga 120
tagatgaggg gattgccccg gaagagggag gcgtggacgc gaaggacacg tctgccacat 180
cccagtcagt taatggatca cccaagcgg aacaacctc attggaatct acaagcaaag 240
aagccttctt tagcagagtg gaaacatttt cttctttgaa atgggcagggt aagccctttg 300
agctgtctcc actcgtctgt gcaaaatatg gctgggtcac agtggaatgt gatatgctca 360
agtgtcttag ctgtcaagct tttctctgtg ccagtttaca accagctttt gactttgaca 420
gatataagca acgatgtgct gagctgaaga aagccttggt tactgcccac gagaagttct 480
gtttctggcc agacagccca tcccagacc gatttgggat gttgccctg gatgagcctg 540
ctattcttgt tagtgaattc ctagatcgtt ttcaaagcct ttgtcacttg gacctccagc 600
ttccttccct aaggccggag gacttgaaaa ctatgtgctt gacagaagac aagatcagtc 660
ttctcttaca cttgcttgaa gatgaacttg atcaccgaac tgatgagaga aaaactacaa 720
tcaaattagg ctcagacatc caagtccacg tcaactgcctg tattctctct gtgtgtggct 780
gggcgtgtag ttctctttg gaatccatgc agctctccct gatarcatgt tcgcaatgta 840
```

```

tgargaargt ggggctctgg ggcttccage agattgaatc gtccatgact gacctggatg 900
catcttttgc tgaccagctn cccaatccca ggccttgagg ggcgaccaga gcgcttacct 960
ctgggtgcctg aatctcctcg gaggatgatg acccgaggcc aggatgccac tttctcccca 1020
ggctcagagc aggctgaaaa gagccctggg cccattgtct cwcgaactcg gagctgggac 1080
tcttccagtc ctgttgaccg tcctgagcca gagctgctag ccccaccacc agaactcgcc 1140
cagtgacccg aagcatggga acaggagaca cccctggcct ggaggtacca tctagccctc 1200
tgcggaagc aagcragctc gcctctgctc ctccagcagt tcggacacat cttcccgaag 1260
cttctttgat cccacctctc agcatagaga ctgggtgccct tgggtgaata tcacacttgg 1320
caaagaaagc agggagaatg gtggaactga accagatgcc agcgccccag cagagccagg 1380
ctggaaagca gtgctgacca tcctcttggc gcacaaacag tctagccagc cagctgaaac 1440
ggactccatg agtctctctg agaaatcaag gaaagtattc cgaatatttc ggcagtggga 1500
atctctgtgc tcatgctgaa gatactccag cgccttctct gagatagctg gaatgagagt 1560
gactttttga aaaattaagg ctgagttcct ttcggctcagc tgacactaag ttttctctgt 1620
tctgggttaa tcataaggag cccctgcca tagcaaaggc agtgagtgtc aactatctgc 1680
atctggctga gagagaccgc tttcctttca gggatgtgga cagggttaagg gcagcaagca 1740
tggttctgtt aaaggagtgt ggggttaaca gactagaagg aagactaagg acctgaccac 1800
ccatttcagc atcttcaatg tggagcagtg ttctgaggac tcttctatcc taggactatg 1860
acagtgtgta ttaataaaat atttgctaag attctcattg ttggagaact gttttcccc 1920
ttgccctgtg ggcggagaa acttcagtgg aacattcaac ttttgatttt cagattggct 1980
gcaaagcctw aaatttgkga ttccagtcaa ggaggtataa tctttcctwa accaaaagca 2040
agatgatttt cattatgcca ccaggaaatt tcctggtgtg ttatagttaa tgggtcaactg 2100
ataattttct cttgtctttg ataataacag aataaaacaa cgtaatgggg aggaaggcac 2160
ttcagaagar acccctytcc atgtgccatt gaatgcatga gtcccccart tgggcttccc 2220
caagactcgt tgcttttggg ggatcatcag tttttgtgg agagaagggt gacctgaac 2280
tgccactga taaagtaacc atgacctagc aaaggctaga aagtgattat tctctgatat 2340
ggccatgttt ttcgtcactg agattgtttc tcgtg 2375

```

&lt;210&gt; 279

&lt;211&gt; 2461

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (14)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1164)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 279

```

tttcaattct tggntttctg ttcccttcta ccaaaaccca gcataggact cagtgtacac 60
ttacttttaa acaaaaactc acattttcta gctgcagggt atggcctcag tcattttaat 120
acagcctgga atgagtttgc ttattaccca gtcactttcg tagtgaatgt tcaaacccca 180
aagcaaattg ttgcatctcc ttgtccataa aggagaaagc caggttatag gagaaagaga 240
gagaaaggcg catgtctgtt tgcacagaga gaggcaattt tgtctacctt tcgagaatca 300
gttataaaca gaagggtcct ttaggatttt gagctctcct gacaatgaag gaaaagctct 360
cttgagtata caagttccac actcattacc tttcagtggt gacccatcac ccactacaat 420
ttgttgaagg aagggtgtgt cagagatatg ctttaaagtt gtactttagg ctgaaattct 480

```



```

ctctgtatTT ggacctgcag atgttTgtgta cagaaccgat gcatggcagg gtcaggaagc 540
taggagagtg aaggcgcttg tggagacagc tctgtagcaa atgaaacacg gaagcctccg 600
ggaatgtgtt tgtgtcacca gcagcaggca tttccctgtc cccccaccc ccagtctcca 660
catccccagc agcctcttcc agaagcatgt cagggagacg gacaggTgct ctccttctcg 720
tgcaccacat ccaagtccac ccaccgtgga cgcagtgtga ctaaattgctg gccttgaaga 780
gaaaccctca gccagcttTg ctgttTgtcca ggtccctcag tgtctctggT tccctgccc 840
tgcataatTT aagcattagt gccaaataca tctgtcatat tcctctccct ggagactgcg 900
aaatgtccag actTTTTtcag actagtggag ggaaggaatg ttacataact aagtggaggc 960
ctggaactgt caggatttTga cagggctgga ccagagaccc ttccgcctct gcctagtgtg 1020
tctgtcaggc aggcagcagc catcaatcca agaatgagcc atggcgcaa gcactktgtg 1080
gagaaaggaa cccagccgag gtctgagttt cagacagaaa ctggggagtt gggacatctt 1140
ctctgtgcca ggcttcattg acancatcgg tccttcattg asctgagccc aagccctcag 1200
tggaaacctg caagagcatc agcagcatgg agctgaagac cgagcccttt gatgacttcc 1260
tgttcccagc atcatccagg cccagtggct ctgagacagc ccgctccgtg ccagacatgg 1320
acctatctgg gtccttctat gcagcagact gggagcctct gcacagtggc tccctgggga 1380
tggggcccat ggcacagagc tggagccct gtgcactccg gtggtcacct gtactcccag 1440
ctgcactgct tacacgtctt ccttcgtctt cacctacccc gaggctgact ccttccccag 1500
ctgtgcagct gccaccgca agggcagcag cagcaatgag ccttcctctg actcgctcag 1560
ctcaccacag ctgctggccc tgtgaggggg cagggaaagg gaggcagccg gcaccacaa 1620
gtgccactgc ccgagctggt gcattacaga gaggagaaac acatcttccc tagagggttc 1680
ctgtagacct agggaggacc ttatctgtgc gtgaaacaca ccaggctgtg gccctcaagg 1740
acttgaaagc atccatgtgt ggaactcaagt ccttacctct tccggagatg tagcaaacg 1800
catggagtgT gtattgttcc cagtgcact tcagagagct ggtagttagt agcatgttga 1860
gccaggcctg ggtctgtgtc tcttttctct ttctccttag tcttctcata gcattaacta 1920
atctattggg ttcattattg gaattaacct ggtgctggat attttcaaT tgtatctagt 1980
gcagctgatt ttaacaataa ctactgtgtt cctggcaata gtgtgttctg attagaaatg 2040
accaatatta tactaagaaa agatacgact ttattttctg gtagatagaa ataaatagct 2100
atatccatgt actgtagttt ttcttcaaca tcaatgttca ttgtaatgtt actgatcatg 2160
cattgttgag gtggctctgaa tgttctgaca ttaacagttt tccatgaaaa cgtttttattg 2220
tgtttttaat ttattttatta agatggattc tcagatattt atatttttat tttatttttt 2280
tctaccttga ggtcttttga catgtggaaa gtgaatttga atgaaaaatt taagcattgt 2340
ttgcttattg ttccaagaca ttgtcaataa aagcatttaa gttgaatgcg aaaaaaaaaa 2400
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagggcggc cgctcgcgat ctagaactag 2460
t                                                                 2461

```

&lt;210&gt; 280

&lt;211&gt; 2520

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 280

```

accacttgca ctccagcctt gaacagagtt aggatcctgt caaaaaagaa aagaaaaaga 60
aagcagcatt caaatgtaag acaactgtaa aatattgagc cccacttggT ctaaaattca 120
aaaagaagaa cgcctgtcca tcgccttttt ataagtcctt ctctccacac ctaaaagcag 180
ctgcagctgg aagggcacaa attccactgt gtaaaataaa atattagggg caacacactt 240
catcaaggca gcaggaatga gagagagcag agaagatcaa ggatgaagtc ttgggtactg 300
aaaaattcag tgcTgggcag aaaaactgac agggcagtac aagtaacaaa cagaatccaa 360
gtggggTggc cttgtgcac agagctccag gtgacctctg gagagacatg ggcattcaca 420
tggaagcta aaacggaagc tcaagtttca tactcaacat aatcttctgt gtgacaaagg 480
acaagccatg tagcctctct gtgcctattt cttcatgcat aaactgggac tcataatatt 540
tgtaaaatgt attgatactc tcagggcaaa ttcactatat tgctatacag ttgagatcag 600

```

tggttgtaaaa ttaaactgat ctggttctaa ttgcctcaaa ggccaaagcc caggcatttg 660  
aaatggaaaag aagcagagag gaggctgact tagctgattg gtatggaaac agttgggcca 720  
agagccagaa tttccctttg tagcaacacg gctagtttta ctttgagaag ctctgctcag 780  
ctgctttata acattaagtc tggcggaatg gatgtcactg tgcacaataa agttttcaca 840  
agtataaaca atgggtgatgt aagtcaacat tgctgtagcc aggtgtgaag gttgtatggt 900  
gtgtgacgaa tgtacatcat gttttaggtt ttggatgcta atcttgaatt gtagyttaaa 960  
aaatacgtat ttttgtaact ctttgaaagt ttatgaagac tgacagcttt ctttgtaagc 1020  
actaagagaa aaaaaagaaa gagggacatt tgacaatttt aaagaaacaa caagaaatta 1080  
gaatgaaaat ctgtgacaaa cagcgtcagt gtggccatgt ccacattcct acatgtctct 1140  
ctctacaagc acctctctaa gaagcctgac atcccggtgg actctttata gtcattgata 1200  
cttgattcca gatgagctct ggtcttatct ggatgctcag ataagaggtt tctatctgag 1260  
catccaatgt tccctcaggt tccaagacat ttcaccccag gccctgggtt tcaactctggg 1320  
aatctgtagg cttcacgtct ctctagaaat gacgtgtaaa atttaagacc agacctcagc 1380  
catcagcgtc cagaccatcc tagaagtctt tcccaatctc acagagaaaag ccctagtatt 1440  
tcccagtac cccaggatcc cacgttgggg tgcccaaaga aataggtctc tcagggtctt 1500  
gccacagcct ccagcccatc cttcagaggg acacacagca cctctcggct gctccagctc 1560  
tgtaggatag cctcccctgg ggtccgtggg acgcgggcca cagtgttgag gtagacaagg 1620  
aggatcagtg agaggcctct tccctctcca cagagactgg attgtcattg ttccttcatt 1680  
tatatcgtag ggcttaacat ttcactcaaa aaaaagcccc tctttttcta atccttagtc 1740  
tttgtttcaa ggaaagccag tttttcttct accacatttt ccaggatcga ctttaagaaa 1800  
aatgcaacat ctattgaaaa aaagtggggt gtatgcatgt ggtttaattc cagattgctt 1860  
ttgggtttta gtggtatcaa atttcagtat atttctgtct tatgtgaaag aaatatatta 1920  
ctaaaacgtc agtgagcaat aatgtcagct gtcaagcact agatttatct ttgcaggata 1980  
tgtagtgcaa tgaactgagt caatatggca aggtgtatgt gatctgtggg agttatgcca 2040  
tttaacatag gaagtgcatt ggactttccc tctctgcact ccagctctta ctgtaccatt 2100  
agaagatgca gaattctgtt ggtgtgcaaa aagtatagcc ttacattcaa gcagaatgga 2160  
tctgaagaaa gcagcaatat ctgttactag agaacattcc catgtgttta aactcttcac 2220  
ttcttagatg catttaaatt cttaatgcaa atgacgtagc aatttgaaaa cttctccgta 2280  
ttacttgtgt ttaaaatgtc ttgctttaaa taaaaacaa atggtaaagg ggattatctt 2340  
ttgttttagat ggttaaatat tatttttgcc ttagatagct ttgtaataat ttttctccag 2400  
acagttcaac acttttgaaa aatgacatga attttcatta aaaacccttt tcctatgttt 2460  
attgtataca agaattatgc aataaaattt ctttataaaa ataaaaaaaa aaaaaaaaaa 2520

<210> 281

<211> 1448

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1427)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1432)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1440)

181

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 281

```
cagcgccact agcctcattg tgcccaggag ttctccaaac ccgcgctgcg gagtgagtga 60
ccaagttccg gccagttcga cctcgaggat ccagaggtgg agacggtact acctcccagc 120
tctgttttcc atccccctca ggtccttcct cgggaggcgg cgaaggcggg ccaccctgcy 180
cgtgacccctt yatgcccggc ccctgcccct ccctccgggt ggaacttccc cctcaccgcc 240
agacttaagc tgaggatcgt tggatctctg gcgggggtgca gaactgagcc caggccacag 300
taccctattc acgctctgtg cttgtgcca gggggcaatg gcggcttcct gtgttctact 360
gcacactggg cagaagatgc ctctgattgg tctgggtacc tggaagagt agcctgggtca 420
ggtaaaagca gctgttaagt atgcccttag cgtaggctac cgccacattg attgtgctgc 480
tatctacggc aatgagcctg agattgggga ggccctgaag gaggacgtgg gaccaggcaa 540
ggcgggtgct cgggaggagc tgtttgtgac atccaagctg tggaacacca agcaccaccc 600
cgaggatgtg gagcctgccc tccggaagac tctgggtgac ctccagctgg agtatctgga 660
cctgtacctg atgcaactgg cttatgcctt tgagcgggga gacaaccctc tccccaaaga 720
tgctgatggg actatatgct acgactccac ccactacaag gagacttgga aggctctgga 780
ggcactgggtg gctaaggggc tgggtgcaggc gctgggcctg tccaacttca acagtcggca 840
gattgatgac atactcagtg tggcctccgt gcgtccagct gtcttgagcagg tggaatgcca 900
cccatacttg gctcaaaatg agctaattgc ccactgcca gcacgtggcc tggaggtaac 960
tgcttatagc cctttgggct cctctgatcg tgcatggcgt gatcctgat agcctgtcct 1020
gctggaggaa ccagtagtcc tggcattggc tgaaaagtat ggccgatctc cagctcagat 1080
cttgctcagg tggcagggtc agcggaaagt gatctgcac cccaaaagta tctctccttc 1140
tcgaatcctt cagaacatca aggtgtttga cttcaccttt agcccagaag agatgaagca 1200
gctaaatgcc ctgaacaaaa attggagata tattgtgcct atgcttacgg tggatgggaa 1260
gagagtccca agggatgcag ggcacccctc gtaccccttt aatgaccctg actgagacca 1320
cagcttcttg gcctcccttc cagctctgca gctaattgag tcctgccaca acggaaagag 1380
ggagttaata aagccattgg agcatccaaa aaaaaaaaaa aaaaaanayc tngsggccgn 1440
caagggaa 1448
```

&lt;210&gt; 282

&lt;211&gt; 827

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (725)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (800)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (814)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

182

&lt;222&gt; (815)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (817)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (819)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 282

```
gcgagcgct gggcgagcgt gtgggtccaa gggaccccaa agctccaggg cagtttgggc 60
gtcctgtagt tgtcccccatt ggaaaggaga aggaggcaga aagaagatgg aaagaaggaa 120
acttcaatgt ctaccttagc gatttgatcc cagtggatag agccattgaa gacaccagac 180
ctgctggatg tgcagagcag ctagttcaca ataacctccc aaccaccagt gtcattcatg 240
gctttgtgga tgaagtgtgg tccactctcc tgagatctgt tcacagtgtc atcaatcgct 300
ctcctccaca cctcatcaag gagattctgc tggtagatga cttcagcacc aaagactatc 360
taaaagataa tttggataaa tacatgtccc agtttccaaa agttcggatt cttcgcttca 420
aagagagaca tggcttaata agggccaggc tggcaggagc acagaatgca acaggtgatg 480
tggtgacatt tttagattct catgtggaat gtaacgttgg ttggttgga cctcttctgg 540
aaagagttta ttttaagtaga aagaaagtgg cctgtccagt aatcgaagtc atcaatgata 600
aggatatgag ttacatgaca gtggataact ttcaaagagg catctttgtg tggcccatga 660
actttggttg gagaacaatt cctccagatg tcattgcaaa aaacagaatt aaagaaactg 720
atacnataag gtgcctgtgc atggctgggt ggattggttt ctattgccaa aagttacttt 780
ttttgaactt ggaacatacn aaccttggc cttnnangnt ttggggg 827
```

&lt;210&gt; 283

&lt;211&gt; 524

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (518)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (524)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 283

```
gagcatttgg ccgcctccct accgctccaa gccagccct cagccatggc atgccccctg 60
gatcaggcca ttggcctcct cgtggccatc ttccacaagt actccggcag ggagggtgac 120
aagcacaccc tgagcaagaa ggagctgaag gagctgatcc agaaggagct caccatkggc 180
tcgaagctgc aggatgctga aattgcaagg ctgatggaag acttgaccg gaacaaggac 240
caggaggtga acttccagga gtatgtcacc ttctggggg cttggcttt gatctacaat 300
gaagccctca agggctgaaa ataaataggg aagatggaga caccctctgg gggctccttc 360
```

183

tgagtcaa at ccagtgggtgg gtaattgtac aataaatttt ttttgggtcaa atttaaaaaa 420  
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 480  
aaaaaacaaa aaaaaaaaaa aaaaaaaaaa aaaaaaanac aan 524

&lt;210&gt; 284

&lt;211&gt; 613

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 284

cctcactaaa gggaacaaaa gctggagctc caccgcggtg gcggccgctc tagaactagt 60  
ggatcccccg ggctgcagga attcggcacg agccgcaggc cagcagaagc tgccgggtgca 120  
cgtagaagac gccctcacct atctggacca ggtgaagatc cgctttggca gcgaccctgc 180  
cacctacaac ggcttcctgg agatcatgaa ggagttcaaa agccagagca tcgatactcc 240  
tgagatcatc agacgtgtct cgcagctctt ccacgagcac cctgacctca ttgttggtatt 300  
caacgctttt cttcccctcg gatatagaat agacattccc aagaatggca agttaaacat 360  
acagtcgcct ctgacaagcc aggagaattc gcacaaccac ggggacggtg cagaggactt 420  
caagcagcag gtgccgtwta aagaggacaa accccagggtg cccctggagt ccgattccgt 480  
ggaattcaac aacgccatca gctatgtgaa taagattaaa acccgcttct agaccacca 540  
gaaattacag gtcattcctg gagatctgca cacstwccar aargarcarc tgaacacgag 600  
gggccggcca ttc 613

&lt;210&gt; 285

&lt;211&gt; 533

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 285

ggcacgagsg gcgggaacac gcggggccca agatggcggc cagccggtac cggcggtttc 60  
ttaagctctg tgaggaatgg ccagtggacg agaccaaacg gggccgggac ttgggcgctt 120  
acctgcgaca gcgggtagca caggcctttc gggagggaga gaatacccag gttgcagagc 180  
ctgaggcctg tgatcagatg tacgagagct tagcgcgact ccattcaaac tactacaaac 240  
acaagtaccc tcgcccaga gacaccagct tcagtggcct gtcgttgga gagtacaagc 300  
tgatcctgtc cacagacacc ttggaagagc ttaaggaaat agataaaggc atgtggaaga 360  
aactgcagga gaagtttgcc cccaagggtc ctgaggagga tcataaggcc tgagctcagg 420  
ccttacctcg tgcacatacc taggtgtgga gtcttgtaca ttgccatcgt caataaaact 480  
gccccagttt ccccttgaaa aaaaaaaaaa aaaraaaaaa gaaaaaagtc gac 533

&lt;210&gt; 286

&lt;211&gt; 2071

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (303)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 286

caagcggaaa ataatgatca agcggcacga ggtggagcag cagaacattc gggaggaact 60  
aaataaaaag aggaccacga aggagatgga gcatgccatg ctaatccggc acgacgagtc 120

cmcccgagag ctagagtaca ggcagctgca cacgttacag aagctacgca tggatctgat 180  
ccgttttacag caccagacgg aactggaaaa ccagctggag tacaataaga ggcgagaaag 240  
agaactgcac agaaagcatg tcatggaact tcggcaacag ccaaaaaact taaaggccat 300  
ggnaatgcaa attaaaaaac agtttcagga cacttgcaaa gtacagacca aacagtataa 360  
agcactcaag aatcaccagt tggaagttac tccaaagaat gagcacaaaa caatcttaaa 420  
gacactgaaa gatgagcaga caagaaaact tgccattttg gcagagcagt atgaacagag 480  
tataaatgaa atgatggcct ctcaagcgtt acggctagat gaggctcaag aagcagaatg 540  
ccaggccttg aggctacagc tccagcagga aatggagctg ctcaacgcct accagagcaa 600  
aatcaagatg caaacagagg cacaacatga acgtgagctc cagaagctag agcagagagt 660  
gtctctgcgc agagcacacc ttgagcagaa gattgaagag gagctggctg cccttcagaa 720  
ggaacgcagc gagagaataa agaacctatt ggaaaggcaa gagcgagaga ttgaaacttt 780  
tgacatggag agcctcagaa tgggatttgg gaatttgggtt acattagatt ttcctaagga 840  
ggactacaga tgagattaaa ttttttgcca tttacaaaaa aaaaaaaaaa aaagaaaaca 900  
raaaaaaatt cagacctgc aaaaccacat tccccatttt aacgggcgtt gctctcactc 960  
tctctctctc ttactcttac tgacatcgtg tcggactagt gcctgtttat tcttactcca 1020  
tcaggggccc ccttcctccc ccctgtgcaa ctttcagtgc tggccaaaac ctggccgtct 1080  
cttctattca cagtacacgt cacagtattg atgtgattca aaatgtttca gtgaaaactt 1140  
tggagacagt tttacaaaaa ccaataaacc aacaacaaaa aaagtggatg tatattgctt 1200  
taagcaatca ctcatcaca ccaatctgtg aaagtaaagc aaaaaataat aataataaat 1260  
gccaaagggg agagagacac aatatccgca gccttacacc ttaactagct gctgcattat 1320  
tttattttat tttatttttt tgggtatttt tcatcaggaa taaaaaaaac aaagttttat 1380  
taaagattga aaatttgata ctttttacag aaactaattg tgatgtacat atcagtgggtg 1440  
acatattatt acttttttgg ggaacggggg tgggtggggt gaagagatct tgtgattttt 1500  
aagaacctgc tggcaagagt ttaacttgtc ttcagcatat tctgattgta tcataatcat 1560  
tttctgctgt tgcagaggat gtgaatacac ttaaggagct cacagaatcc cagtagcaca 1620  
aattgggctt tggcaaatcg tgtattttgt gtatagaagg aatttaagga gaggtattac 1680  
ttattttcat attgtatttt aactgtttct ctgatcaaat ttttttactt cctcctcctg 1740  
ttcctcccca cctccctcct tttccagttc agtatttgga gttcaacact gtctctcaat 1800  
cagatcatct tgatcttttt ctttatctcc cttccccttc ctaagtccca tttcttggtc 1860  
ataaatattg cattattcac actttcaaac tgtgtatttt cttacaataa aaaatgatga 1920  
aaaaaaaaaa ggctttactt cttttgcatg cactttaaaa acaaaaacaaa acatttttca 1980  
ggttccaagg aaragcatga taactgtcag agcttttaat tatatttgta aataaaaagtg 2040  
ttcatcacia aaaaaaaaaa aaaaaaaaaa a 2071

<210> 287

<211> 1966

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (56)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (788)

<223> n equals a,t,g, or c

<220>

<221> misc feature

185

&lt;222&gt; (1753)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 287

```

gaactagtct cgagtttttt ctgtctagct cgcaccggct gaggcggcgc ggcagnngag 60
ggacggcagc ctgcrcggc tactgcagca ctggggtgtc agttgttggc cgcaccaga 120
acgcttcagt tctgctctgc aaggatata aataactgat tgggtgtgcc gtttaataaa 180
agaatatgga aactgaacag ccagaagaaa ccttccttaa cactgaaacc aatggtgaat 240
ttggtaaacc ccctgcagaa gatattgga aggaacaagc atttaaaaga tctagaaaca 300
ctgatgagat ggttgaatta cgcatctctc ttcagagcaa gaatgctggg gcagtgattg 360
gaaaaggagg caagaatatt aaggctctcc gtacagacta caatgccagt gtttcagtcc 420
cagacagcag tggccccgag cgcattattg gtatcagtgc tgatattgaa acaattggag 480
aaattctgaa gaaaatcatc cctaccttgg aagagggcct gcagttgcca tcaccactg 540
caaccagcca gctcccgctc gaactctgat ctgtggaatg cttaaattac caacactata 600
aaggaagtga ctttgactgc gaggtagggc tgttgattca tcagagtcta gcaggaggaa 660
ttattggggt caaagggtgt aaaatcaaag aacttcgaga gaacactcaa accaccatca 720
agcttttcca ggaatgctgt cctcattcca ctgacagagt tgttcttatt ggaggaaaac 780
ccgatagngt ttagagtgct ataaagatca tccttgatct tatatctgag tctcccatca 840
aaggacgtgc acagccttat gatcccaatt ttacgatga aacctatgat tatggtggtt 900
ttacaatgat gtttgatgac cgtcgcggac gccagtgagg atttcccatg cggggaagag 960
gtggttttga cagaatgcct cctggtcggg gtgggcgtcc catgcctcca tctagaagag 1020
attatgatga tatgagccct cgtcaggagc cacctccccc tcctcccgga cgaggcggcc 1080
ggggtggtag cagagctcgg aatcttctc ttctccacc accaccact agagggggag 1140
acctcatggc ctatgacaga agagggagac ctggagaccg ttacgacggc atggttgggt 1200
tcagtgtctg tgaaaacttg gactctgcaa tagatacatg gagcccatca gaatggcaga 1260
tggcttatga accacagggg ggctccggat atgattattc ctatgcaggg ggtcgtggct 1320
catatggtga tcttggtgga cctattatta ctacacaagt aactattccc aaagatttgg 1380
ctggatctat tattggcaaa ggtggtcagc ggattaaaca aatccgtcat ggtcggggag 1440
cttcgatcaa aattgatgag cctttagaag gatccgaaga tcggatcatt accattacag 1500
gaacacagga ccagatacag aatgcacagt atttgcctga gaacagtgtg agcagtwma 1560
gwttagcttt gtgttagctt atacatacta aaacctttaa aaagcttttc ttctcaattg 1620
atttttttct tttagaagcc atggtgtctc aaccttttgg ggacctaaact tctaaacatt 1680
ctaatagttt gccttaattt ttcttctgct ttcttactaa aaacgargac attcaatact 1740
aatcttgctt ggnaggaagc cttgaaccaa gcaaaactct gcatttctct ggtgaaaact 1800
gctgccaaaa ccacttgcta aaaattgtac agagcctgta ggaaaatata gaaggttcca 1860
ttgggatgtt ggcctagtct tgtgtgggaa gacttagtgg attttgtttg tttttagata 1920
actaaatcgg ccaacaaatc accgttcttg cctatgggac cggggcc 1966

```

&lt;210&gt; 288

&lt;211&gt; 869

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (869)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 288

```

gctctggcgg gcataccagc gggccctggc cgctcaccgc tggaaagtac aggtctgtac 60
agctgggccc tgtggttaga ggctggtaca aggttttgga tcggttcatc cctggcacca 120

```

186

```

ccaaagtgga tgcactgaag aagatgttgt tggatcaggg gggctttgcc cctgtgtttc 180
taggctgctt tctccactg gtaggggcac ttaatggact gtcagcccag gacaactggc 240
caaactacag cgggattatc ctgatgccct tatcaccaac tactatctat ggctgtgtgt 300
gcakttagcc aacttctacc tgggtccccct tcattacagg ttggccggtg tccaatgtgt 360
tgctgttata tggaaactcct acctgtcctg gaaggcacat cggctctaag cctgcctcac 420
tccatcgttt ccaccttgca gtgatgcagc ttgacctgg aacggtcaga caacctcctc 480
aaagtgggca taccagtttc cacgggggtg ggttgccggt cagagcttaa gaggactagc 540
accctgcaat gcccctcttc actctaaaat gtacactgac tgcttttagag cccttgataa 600
tagtcttatt cccaccacat actaggcact ccataaatat ctggtgaacc ttcattgacct 660
tatcaacttt acaccatat cccagcaaat gccactcatc cccactcttc atagacacat 720
ttgttactct aacctgcct aggcttcttg tagctccagc tcttttagaga ctcccggaa 780
cctttatatg gtgcctcagt aaatatgtta ttaaatatgt aatccggaaa aaaaaaaaaa 840
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa 869

```

&lt;210&gt; 289

&lt;211&gt; 1105

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (34)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 289

```

cagaatgtat tcggcagaaa agggactcag gtangcccag cctgggactg agagcagaaa 60
agcattcaag atttgcaggc cttgctatgg atgcgcttaa tcaccatgga ggccagcaat 120
accatctca gcatggcttt gatattctct acttcctggc ctttaaaaat gacctataat 180
ttttcagttt gctttactat attttataaa gaaaattcta tcttatggtt gattgagcat 240
tgagacttat gaaggcatta ggatagatag ctcaggaatg taaaggttca gaaaaggctt 300
gttttctcag attaacaaat atgatggatt ccattggctga ccttgggtgct taaaccagga 360
ggtttcaatc tagtcctaga gttgtgtccc tctgaaaggc ccaatgccat gtaactaact 420
ttaaactgga tatatacttt gagccttact taattcacag ataagttgac ttaactcagt 480
atttttattt caattaatga aaacagtcct cttttcaacc ccagggttgct tacattttgc 540
tggctcccc aagtgacct tgggtggagac caattaatga aggaatgaaa ttcactttat 600
tgggactgtg gtattcaaca gagccacact taaccacttt ttccaatgaa gaatctccag 660
aatgataatg cccaaatatg gatggccaar aagaatttgt atctacggtg tgctttatgt 720
gtttttgaca ctgctgtatt ctgtgtgac aagtgatttg sagctgggtc caatgtkact 780
gagtgttctc aaaratttct agtaactaag tcaacttaat tttcttaagc ctggtattac 840
tatcagcctc acatttacca ctttgattct agttttttta ctgttcataa cagggcatac 900
cgagggttgg gatgagagcc tacttcctac ctcttaaggc actttcctca ttattttgcc 960
atataatctt gaactgcatg ataagctgtt taaatgtcca tgacttctcc cagagcaact 1020
agcaaagtat atgaccattt tgaatagagg ttagtggaaa ggaaaatgta gaggttttaa 1080
gttcagagg tacaacctc caata 1105

```

&lt;210&gt; 290

&lt;211&gt; 1982

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 290



```

tggatcccc gggctgcagg aattcggcac gagcagagac gtggaggcgt gagggagaac 60
atgcttggtta aatatgcagg tagattagga gacaccaaac agagattcag acacagtaag 120
gctgggatga gatcctcgaa gctgtgtttt aacaaactcc actggagagt cccatattcc 180
ctcaaatttg ggaatcacga ccctgaacca ggttgggcct gaagcagtca actgaattca 240
ctttttcggg tagtaatttg ttcccagggg cagtgcacaac catgatgttc caggtttggg 300
ctggcactct gccttgaacg taggaagctc ttgatgattt gtggaatgaa tttttaaaaa 360
attactatct ggggaaaact agttggcata cagagttgta ggacagggtt tatgtgattc 420
atltgatatt ttagtatttt ggtgtaaaag ccaacaggca aactttgccg ggtactgtgt 480
agaaactcga aaatgtgagg ccagtttgta cagttcagag gaaatgcttt aacgtagaat 540
cagatagctg gaagagatct tcgagggaaa gtaagttccc taaagtcaca tctatgtctc 600
ctagctcagt gttctttgtc attgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgat 660
tagaaagggc ttcatccta ctttttcctt tggacctgga aaaaaaattt tttttatctt 720
ttcaaagtaa atctattgat ttctagtaat catatktgaa tcaatgttaa agcatatata 780
gtcttatatg taaactagat tcttaagatt atktgaacct ttgagatgaa gtttactctc 840
aactaaaatc attccattga ttttattgat taacatcaat cagtatgttt aaagttattc 900
taagaagcaa tagtttattt ttaaaaacct tgtayagcaa aataacttaa aaccctttgt 960
gatatcatct taccagttta tttggtaaaa acaaacagtt atttgggtatt tgtcagaatt 1020
cttcagtgcc tgctattaca gctattttcc aattactaat ttgattatac tcaactcaagg 1080
cagtgaaga tcttgaagta ctttttagca gtttaagtaat attgaattgt attgaatagt 1140
ttacatagtt tattctagtc tttgaaaatt actgaacatg gacaatgtgc atgtcattga 1200
catctgcctt agaacttctg ggacaatcct gattcgagag attctatccc attatttaca 1260
tataccaaaa atactttgtt aatttaatgt gttggcttcc caactcctga acacgacaca 1320
atlttattat tagattttgt atgggtgattt taggctatga aaacatgac atttatatgta 1380
tatagataca tttttatttg ttacaaatgt ttgagcagct cactagccca cccctcctct 1440
atlttgggta agagaattta ctacctttt taactatgta gttgagagca acatgtattt 1500
tgttattttt agaatgggtc gtatattgct ataaaatttt aaatgagact atgaaagtta 1560
aagtattctg attctgggtt aattaacgaa tatgggtcca ggccctgttc tctgggtttt 1620
tgagagagaa taaaggttat gtttgtctta ctttgtttat cgagtttgct gaattctttt 1680
gaacgatgat cttaaaggca caaacaccac cagccacttt gctaatttct taatagcaga 1740
tttacattgc agcaagaaaa ccatctttta tagtaacatt cagttaaaat gaactcaatt 1800
cattgttaac ttccataaac agaatttgaa ctttatcaac ctcaacgtgt atataaacta 1860
gatagtcctc aatactttat caacctcaac atgtatataa actagatagt cctcaaatac 1920
tgtttgaatt taataaatgt caatttaaaa atttttaaaa aaaaaaaaaa aaaaaaaaaa 1980
aa

```

&lt;210&gt; 291

&lt;211&gt; 2329

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 291

```

tttttttact ctagggaaaa cactgacgaa tggctcagagc tcctatcctg atcttttcat 60
caaggcgctt ttccataata tatggttcaa ctgtgaatgt agaagtgggg gggagggggg 120
agaaaaagaa aactctggcg tttagaggata tagaaaaata taagtacaat tgttacaaat 180
aacgcagact tcaaaaacaa aaaaatcaca acccaaacaa accaaaattt aaatgatcag 240
aattggcagc acaaagaaaa cgccctctcc tgacttgtat tgtggcagtc tgaacgcccc 300
cagaaaattg tgccaaagag tttagaaaaa taaatatata ataaaagtaa acacatacac 360
acaaaacagc aaacttcagg taactatttt ggattgcaaa caggataatt aaatgttcaa 420
acaatctgat aaaataacca tttggaaact gcttggcctt ctgttctttt atttgattga 480
ctacaatgcy gtattgggtc cttgctgcac ttcaaaagca accaacaata caaaaacaaa 540
aaaaagtgtg tgtgtgtgaa tacacacaca cactaactag aagtcttgtg atgaaatgg 600

```

188

```

cacttggaag agggtttatt tttccactga agttgaaggt taataaaatg gtgtcaaacg 660
ccccctgggc acacacttga atattttttt agaagtgtga tgtgggtatga ttaccataaa 720
tcagacttaa ttattttccc ttttacaagg gaacagggca tcctgaattt tagagccttt 780
cagcaataag aagggtatgtt ggtgagcttt gatcctcttt tggttttgca gttgttagga 840
gtttttgctg gcattttgaa tatgctgctt tcagaaaaac caaggaaggt ttaaaattgc 900
ttcctgggtc ttagaggact aaaaacaaga ccctcattcc cactttcatt tccactctag 960
caaaaactgg gcttgcgttt ttctccaact cctcgtttat atcctccctt ccatgtccaa 1020
gccttccatt cctaagtggg attggctcag ttttgcccat ccataaggca gcattctctaa 1080
tagctcttgt acagggtatc agatattgtg ctttttgggt ccagggttcaa agtcaagtgc 1140
cgatctatga accagtgtac aaaaaaaaaa aaatccaggt atttgaagga gagacgctcc 1200
attgtgaata aagagctcat accagctcct aagccctatt aagaagaggc ctggctcctc 1260
aatgccttgt ttccatttca gttgttcttt gagagacaga atgatgtact aaccattcgt 1320
gattattaag atagggttgg gtcagggtct agggaggggg cagaaatatt ggggatagaa 1380
aaaaaatctg atcattcctc agtgctaccc atttctgtcc tgtgtgggct gcttagctag 1440
acagcaggag aataaagtac accgagaacc ataataaaaa aaccttccgt gtgttttgtc 1500
atgttttgtt ccagggaagc agttgatgag tgctgttact aatgctttct cccagatcca 1560
ttcagtgggt gagaggagga aaatgggctg gttggatgtg gtcttgggtg cttgcagtta 1620
ctctgcactg gttatgcatt taattctcct cttttctagt taaccttttg ccagtgggtt 1680
ttccatagtc tgggtatttg kccttatatc agttatacca cctaaggcaa ctgggtgcaa 1740
aatgcattct gttcactcac tgtctgggcc ttcccaccc tagtcttggc acattccttc 1800
aagaatgtag ttaccgtctg cttgggaaga tgcagtgc aatgtgaaga taatgggcat 1860
cggactaggc tttggtttkc cacaagtggc agctgcctgt atcaattaca tttattaatt 1920
ttgcttttca tttttccag ttctctcac ccccttttg ttgaaatgtt ggacttgctg 1980
tcagaggcaa ctgtaatat gccttaggga cttgtggaga aggggaattg ctcagtgtag 2040
tgttttaact ttcagaacca agcaatctat ttactcttac aaatattdaa gaagtgtgtt 2100
agtccaactt taagaaaaat ccaaactcat cagcttttga tagcatcttg gtttttgaaa 2160
caacttcaat ctgtaattgg cattcagaat gcccttgga tgccagtctg tgatggcatt 2220
taagacctgt aaaacacttg agcccaactc gattaaccaa aaccgataac caccaccttt 2280
atcttctaaa taaagtccgc tttattttta ttttcaacaa aaaaaaaaaa 2329

```

&lt;210&gt; 292

&lt;211&gt; 2424

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (666)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1757)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 292

```

gatcaattct cacttaagag gccataaac aacccaacat gaaaagggtga caagcctggg 60
tttctcccag gatagggtgaa aggggttaaaa tgagtaaagc agttgagcaa acaccaaccc 120
gagcttcggg cgcagaattc ttcaccttct cttccctttt ccatctcctt tccccgcgga 180
aacaacgctt cccttctggg gtgtctgttg atctgtgttt tcatttacat ctctcttaga 240
ctccgctctt gttctccagg ttttcaccag atagatttgg ggttggcggg acctgctggg 300

```

189

```

gacgtgcagg tgaaggacag gaaggggcat gtgagcgtaa atagaggtga ccagaggaga 360
gcatgagggg tggggctttg ggacccaccg gggccagtgg ctggagcttg acgtctttcc 420
tccccatggg ggtgggaggg cccccagctg gaagagcaga ctcccagctg ctacccccctc 480
ccttccccatg ggagtggctt tccatttttg gcagaatgct gactagtaga ctaacataaa 540
agatataaaa ggcaataact attgtttgtg agcaactttt ttataacttc caaaacaaaa 600
acctgagcac agttttgaag ttctagccac tcgagctcat gcatgtgaaa cgtgtgcttt 660
acgaangtgg cagctgacag acgtgggctc tgcattgccg cagcctagta gaaagtcttc 720
gttcattggc aacagcagaa cctgcctctc cgtgaagtcg tcagcctaaa atttgtttct 780
ctcttgaaga ggattctttg aaaaggtcct gcagagaaat cagtacaggt tatccccgaa 840
ggtacaagga cgcacttgta aagatgatta aaacgtatct ttcctttatg tgacgcgtct 900
ctagtgcctt actgaagaag cagtgcactt cccgtcgtc ggtgaggacg ttccccgaca 960
gtgcctcact cacctgggac tggatatccc tcccaggktc caccaagggc tcctgctttt 1020
cagacacccc atcatcctcg cgcgtcctca ccctgtctct accagggagg tgcctagctt 1080
ggtgaggtta ctctgctcc tccaaccttt ttttgccaag gttgtacac gactccctc 1140
taggctgaaa acctagaagt ggacctgtg tgtgtgcatg gtgtcagccc aaagccaggc 1200
tgagacagtc ctcatatcct cttgagccaa actgtttggg tctcgttget tcatgggatg 1260
gtctggattt gtgggaatgg ctttgctgta gaaaggggag gagagtgggt gctgccctca 1320
gccggcttga ggacagagcc tgtccctctc atgacaactc agtgttgaag cccagtgtcc 1380
tcagcttcat gtccagtga tggcagaagt tcatgggta gtggcctctc aaaggctggg 1440
cgcatcccaa gacagccagc aggttgtctc tggaaacgac cagagttaag ctctcggctt 1500
ctctgctgag ggtgcacctt tctctctaga tggtagttgt cacgttatct ttgaaaactc 1560
ttggactgct cctgaggagg cctctctttc cagtagggaag ttagatgggg gttctcagaa 1620
gtggctgatt ggaaggggac aagcttcgtt tcaggggtct gccgttccat cctgggttcag 1680
agaagccga gcgtggcttt ctctagcctt gtcactgtct ccctgcctgt caatcaccac 1740
ctttctcca gaggagnaaa attatctccc ctgcaaagcc cggttctaca cagatttcac 1800
aaattgtgct aagaaccgtc cgtgttctca gaaagcccag tgtttttgca aagaatgaaa 1860
agggacccca tatgtagcaa aaatcagggc tgggggagag ccgggttcat tccctgtcct 1920
cattggctgt ccctatgaat tgtacgtttc agagaaattt ttttccctat gtgcaacacg 1980
aagcttccag aaccataaaa tatcccgtcg ataaggaaag aaaatgtcgt tgttgtgtt 2040
tttctgaaa ctgcttgaaa tcttgctgta ctatagagct cagaaggaca cagcccgtcc 2100
tcccctgcct gcctgattcc atggctgttg tgcctgattcc aatgctttca cgttggttcc 2160
tggcgtggga actgctctcc tttgcagccc catttcccaa gctctgttca agttaaactt 2220
atgtaagctt tccgtggcat gcggggcgcg caccacgtc cccgtgcgt aagactctgt 2280
atgtgatgc caatccacag gcctgaagaa actgcttgtt gtgtatcagt aatcattagt 2340
ggcaatgatg acattctgaa aagctgcaat acttatacaa taaattttac aattcttttg 2400
aaaaaaaaa aaaaaaaagt cgac 2424

```

&lt;210&gt; 293

&lt;211&gt; 2160

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (470)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 293

```

gctcgtgccg tggatgcggc tctgcaggat gaagatgaga tacaggtgga tgcattcatca 60
tttgaaagca ctgcaataaa gaaatcctcc tctcttctc caggaacccc tgcattctcag 120
ctttatccac agtctcgggg gctgggttcca aagtaaagcc agcttctcct ctcccagggc 180

```

ggaaacagca tttgccttct gagagaagag actagcaaaa agctgcagag aggattcggc 240  
 ccaaactcag aactgttccc ctgaggagaa gcggtggcct ctttgcagat caaccaactt 300  
 aatctggttg aacgtgctgt tcctaactctg gcactcagcc cctctgggaa acatctttta 360  
 attagcatct cagaaatgca tgggtaagggt aaagtgcgat agttcaagtg gaaagcaaga 420  
 gaatgaccag tgaccttgct tccttcccc ttgccttctt ccccccttn ccctgtgctc 480  
 cctttctctc ctctctcctt ttctagcctg ttcttwacat ggggctccct tcttgttgaa 540  
 caatagggca gaatcaggrg tcaccttagc aggaccacat ctttggagcc tcgggataaa 600  
 atgacagtga ggttgaaaag tgaaaaccct aggaacttga ataggtgcct gttctttag 660  
 ggagaaatga gaaatgcgat ttggatccag gccccagggtg ggcaccatca gcagtcttgc 720  
 ttccatgcac ctgagtaaga agtggatctg cctttgggac ctgctcagtg aggaaatctc 780  
 ttccaatttc tgcttctgaa tgattcaatg ttgggagcaa tagaaataac attccctttg 840  
 ccttctctga gtgtttagggt aaatagcttc tttaaaacct caaaacctg accatcctgt 900  
 caaagacctt agtctgtaag ctggtgccat gtccatacac catgtcactt tactcttcat 960  
 ttgtcaccat cttttcccat gcacgcatac tctgaacatc cttgtgtggg cccatcctct 1020  
 gcatccagag catgctctgc agtgggcctg ttttgtggaa gaaaggaggc tgtctctgcc 1080  
 ttctctgatg ggactggagt tgagggaagg agctgtattg tggcacttct gaattccccg 1140  
 ttttgttcca tattggtata gagagcagaa gtagtagctag gcagatgcag agatggagac 1200  
 atgagactca gtgcagtggg caggggaagac ataacagatg gaagcaaagg aatcctgcct 1260  
 gccttcagca gagaattcac cgaatcctag aactgtggct ccctccaggc agagcctaag 1320  
 atgctggtga agaatagctg tgtgattgaa taggctcaaa ggagagttca gaattcccat 1380  
 ttacatatta ctagtttggt ttgtaagttt tagttccttg tattattgag attcagagct 1440  
 tcattttatg ttggtcatta ggtgaatatt actcattttc cctcaagaga agctcataag 1500  
 tgtgtgtggg tgtgagagca cgatggtgcc tgtgttctgt gaatgtgtcc atatgtgtct 1560  
 gtaagagaga cagagacca gaacttgccc aattttagaa atacactaat gtgcagttgt 1620  
 tgccctttgt ctgtattgaa ggccattga atgactaatc caggctggaa gcattcccat 1680  
 gtgggtgtct gagtccatga gccaaagcctg aggggacagt gagtctccag gtctgccaca 1740  
 ctggtgcacc ttgctggcac ggtgcctcag gaaggtggcg actcargtgg gccttgagtt 1800  
 atattttaac tcagctgctc agttcccagg gcacatttct ggatcagaac ccatgggaaa 1860  
 caggaggtac taagtgaat gtcttagcat tctgcaaaat ggagatctgt tgtccagcgg 1920  
 cttatctcct ttttagtaac cttctttct gaaccagggt cccttttcag cttccctca 1980  
 tattttcttg agatcaaaact ttacttcttt cttatttact aagaatttgc ctgtttgaat 2040  
 aagaacaaaa cgctaagggtg ggtagcctaa gctgatttct tgctggttac acgtgtctct 2100  
 cacaccacat ttcctcaaag ctaatctgaa ttctgtaggc taaaaatatt catgtagcaa 2160

&lt;210&gt; 294

&lt;211&gt; 1257

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 294

tcgaatgtca tcaggaatga gcagctgccc ctgcagtact tggccgatgt ggacacctct 60  
 gatgaggaaa gcatccgggc tcacgtgatg gcctcccacc attccaagcg gagaggccgg 120  
 gcgtcttctg agagtcagggt tctaggtgct grakygcgca cgraggccga tgtagaggag 180  
 gagggcctga ggaggaagct ggaggagctg accagcaacg tcagtgaacca ggagacytcg 240  
 tccgaggagg aggagtccaa ggacgaaaag gcagagccca acagggacaa atcagttggg 300  
 cctctcccc aggcggaacc ggaggtggca cggctgcccc tcaaaccaac agacaggaaa 360  
 aaagccccca ggacctggg gaccccgctc agtacaacag gaccacagat gaggagctgt 420  
 cagagctgga ggacagagtg gcagtgacgg cctcagaagt ccagcaggca gagagcgagg 480  
 tttcagacat tgaatccagg attkcagccc tgaggggcgc aggctcacgg tgaagccctc 540  
 gggaaagccc cggaggaagt caaacctccc gatatttctc cctcagagtgg ctgggaaact 600  
 tggcaagaga ccagaggacc caaatgcaga cccttcaagt gaggccaagg caatggctgt 660

## 191

```

gccctatctt ctgagaagaa agttcagtaa ttcctgaaa agtcaaggta aagatgatga 720
ttcttttgat cggaaatcag tgtaccgagg ctgctgaca cagagaaacc ccaacgcgag 780
gaaaggaatg gccagccaca ccttcgcgaa acctgtggtg gccaccagt cctaacggga 840
caggacagag agacagagca gccctgcact gttttccctc caccacagcc atcctgtccc 900
tcattggctc tgtgctttcc actatacaca gtcaccgtcc caatgagaaa caagaaggag 960
caccctccac atggactccc acctgcaagt ggacagcgac attcagtcct gcactgctca 1020
cctgggttta ctgatgactc ctggctgccc caccatcctc tctgatctgt gagaaacagc 1080
taagctgctg tgacttccct ttaggacaat gttgtgtaaa tctttgaagg acacaccgaa 1140
gacctttata ctgtgatctt ttaccccttt cactcttggc tttcttatgt tgctttcatg 1200
aatggaatgg aaaaaagatg actcagttaa caccaaaaaa aaaaaaaaaa gtcgagc 1257

```

&lt;210&gt; 295

&lt;211&gt; 1117

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 295

```

gccctgagcc ccgccatggt ggtgccggag gaccagctga cccgctggca cccgcgcttc 60
aacgtggatg aagtaccgga catcgagccg gccgcgctgc ccagccacc cgccacggag 120
aagtcacca ctgctcagga ggtgctggcc cgggcccgcg acctgatttc acccaggatg 180
gagaaggcct tgagtcaatt ggccctgcgy tctgctgcgc ccagcagccc cgggtctccc 240
aggccagcac tgccggctac cccaccagcc accccgcctg cagcctctcc cagtgtctctg 300
aagggggtgt cccaggatct gctggagcgg atccgagcca aggaggcaca gaagcagctg 360
gcacagatga cgcggtgccc ggagcaggag cagcggctgc agcgcttaga acggtgcct 420
gagytggccc gcgtgctgcg gagegtcttt gtgtccgaac gcaagcctgc gctcagcatg 480
gaggtggcct gtgccaggat ggtgggcagc tgttgtaacta tcatgagccc tggggaaatg 540
gagaagcacc tgctgtctct ctcgagctg ctgccggact ggctcagcct ccaccgcate 600
cgcaccgaca cctacgtcaa gctggacaag gccgcggacc tsgcccacat cactgcacgc 660
ctggcccacc agacacgtgc tgaggagggg ctgtgagcct gggggccact gtggacagac 720
gtgggcttca gaagctcgct ggcctggggc caccagcatt ttcttttatg aacatgatac 780
actttggyct tcttttcccc agcgcctctg agggccagag gcagatgtgg gctgcaggct 840
gcacagcccg agggctctct gctgcggggc gtgggcccct tcatggggct cacctggtgg 900
attcacatta aaccggtttc tgtgggcacc tctgtccttg ctgctggtgg ggaagggaag 960
ccagatccag caccctctgg ggggcatcg ggagtgtggc tggrrgtgaa gggggctctg 1020
tggcaatatg gggttgggta gtgtgggtgg caaggccatc ccctctaate ttggaacctc 1080
tgaatatggg accttcacac gcaaagggtg acttttg 1117

```

&lt;210&gt; 296

&lt;211&gt; 468

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 296

```

tcgacccacg cgctccgccac gcgtccggag gtttttccct tggagggcaa acaaagtggc 60
agtggggacc aggggtgtccc ctgctgagaa atggagagct cttttccctt gtactttctt 120
ggggtttgct ttgtggaacc aagtgtttgg gggaggagct cctggcagga ctccagctgt 180
tatttgtcag aggacagcta ggattggttc acccttgctc tgagttggcc ccaaagcgag 240
ctatgctgaa ctcttctcca tctccaagca gacaaccttt gtctttacat gcaagaggga 300
tccaattatg acaggctgac ccagctggtt tcatgtttgg ggtttatcta ctgagtaagg 360
ctgaccttac ctgagtttct gtatgtgtat ttgcaagaca gttaatacta atccatcatc 420
cctcacagag atgtagagga tgagatgtag taacttatag cagtgtca 468

```

192

<210> 297  
 <211> 464  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (80)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (458)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (461)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (464)  
 <223> n equals a,t,g, or c

<400> 297  
 ggcacgaggt cctggaggcc ttgatgaggc ccagcaaaca ggcattctca cagctggggt 60  
 tatagtcttt gggccccttn ctcagtatcc tgggaaccct gggccaggag gttacagtgg 120  
 tcatcataat tgctgaagag atccccctcc ctgcccctgg gttcctgcct tccctcctca 180  
 agcaggcacc caggcttttag agaagtatag ggggcttctt ccctgctggg cttaccacac 240  
 tgctctcagg cctcaaacc tttcatacct ttattctttt ttttaaccaa aaaagttttt 300  
 cttataaaat aaatttttggg caaacawmaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 420  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aggggggncc nttt 464

<210> 298  
 <211> 2630  
 <212> DNA  
 <213> Homo sapiens

<400> 298  
 gctgcacttc ccaggcccca ccagccgcgg ctccggctcg tagccacag cccactgccg 60  
 gcggctgggc gctgccgagg ctcggggcgc gcgcagttgg cgtctgccag tgccaagact 120  
 gtgccgcccc cacagccgag gcgcgaaagg gggacgcccg gcctctgggc cgctgccttc 180  
 gctttctctt cgttgtttcg aacgccgtcc gctcaggagg cgccccgcga ccggcgcgat 240  
 gagtgccaac gaggaccagg agatggaact agaagcatta cgctctatct atgaaggaga 300  
 tgaaagtttc cggaatttaa gtccagtttc ttttcaatat aggatagggtg aaaatgggtga 360  
 tcccaaagcc ttcttaatat agatttcttg gacagaaaca tatcccaaaa cacctccaat 420  
 tctatctatg aacgcttttt ttaacaacac catatcatca gctgtaaagc agagtatat 480  
 agccaagcta caggaagcag tagaagctaa tcttggaacc gctatgacct atacattggt 540

## 193

```

tgaatatgcc aaagacaata aagagcagtt catggagaat cacaatccca tcaattccgc 600
aacatcgata agcaatatca tctcaattga aactccta atacagcccat caagtaagaa 660
aaaagacaaa aaagaacaac tttcaaaagc ccagaagcgt aactggcaga caaaacagat 720
cacaaaggag aacttccctcg aggctggaac tgggttgatg ttgtgaagca ttttaagcaa 780
actggctcta aggatgatga gtagcacttg gaatttgaga caaggaaaga gcattcttta 840
aagagtaaaa ctgggttcaa aatctttcat tactattttc tggatttgag gcgacttttt 900
ataaaacaca attttttgta tgtttcttac attaaaaagg ttgtaagttg aaagtccatg 960
aagagatcctt gttgtattaa attattttca caaacttgcc ttaataaaag gtgaaaatgt 1020
tactgtttag tatactttat gaagccctt gagctttata aatggacagg catggggaat 1080
aagaatcagt gttaatttaa atgatcttat cctggtggat gtgctrtttt cttaaaggag 1140
tatgaagccc ttttcaaact atcatcccag tggagcggag tactcagtga acagttactc 1200
catagtgcaa tccatattaa taggcttctt ctcttaagtc ttcattctctt cttttgctta 1260
attactgaac cgtaaattac ttcagagaaa tttaaatgct ggtatttgaa ctttatacat 1320
gatacttttt gtagtttctt ttaatttttg aaagatgaac tgcttctttt taataaatta 1380
atatctattt atacttttct cttgatttgg gtcaagatgt ttgatcatga gtgctttgag 1440
tggtatgtgg aataggagaa tataaaaaa aatctgcca atacactaga aagcatttta 1500
gtaagaaatg ctggcccttt cttaaaacat ttctcttgca tataccagga tgggagtaaa 1560
agatgcctta atatttagtt tttgtattgt tggagacatt gattttaata aaatcctatt 1620
tatctgctgt tgtgtgcttt tagttgttgg ataactgagg tctcctaaat gggtcaacat 1680
aaaaccacat ttcaagtctt gtttcttttt ggagtgtctt ttcaagtatt caaatgtatt 1740
tctcaacctg agcatctttt taatcatata catgggagtc ttttaaatgc tgaactgtta 1800
cacatgcttg atttaaaaat aataataata gaggaacta ttggtctagt tgtgccaa 1860
aaagtttctg atgtttatgt gtgatgtaca gtgattttgt atatgcgcc agctttaaga 1920
acacataaaa ctattacgtc tggtaggaag attgttagtg cctcaagtta cacctgtgca 1980
gcttggtctt gagttttgat agaacagtaa acatttaaag aagttaagag cagtttgagc 2040
tgtatccgcg gtttttactc gttaactgac ttcagctaaa tagtttgaat tatagagtaa 2100
gtataattac agcaaaggag ttaatctcat tttcaaagct gtttctcatt ttatttcttg 2160
aattaatgta gagcaaaaca tgtaaaatt caggacmact ggaatatggc aacttatgtt 2220
tcagggttgt gtgtgggtag tatttgggtt tgtattgggt tgttttttgt ttttgagaa 2280
acatctgcta gtggaataaa atactttgtt ttgctctgaa gagactgaaa ttgttcaggc 2340
ttattatggc tcatagatta cagagaatga tgctagtta atgccaatga actattttta 2400
ctctttttat atgaaatgta aaaatttgta ggggttcttg tgatggtggt acctcttatt 2460
accttatgta aaacacttga acagcctcat caatattgac gtcattctgt taacactccc 2520
agtatatttt ctcaatgtct gtttacttaa aatttttggt agtgacataa ttaataagca 2580
ataaagtctg aattatacac agaaaaaaaa aaaaaaaaaa aaaactcgag 2630

```

&lt;210&gt; 299

&lt;211&gt; 1422

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (13)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (16)

&lt;223&gt; n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1205)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1367)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1381)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1398)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1401)  
<223> n equals a,t,g, or c

<400> 299  
cggacgcgtg ggnaanaaaa aaagaaaaag aaaaagaaaa gaaaagaaaa ggtacatcag 60  
acatgactgc ctgcatgaag tcaaacaggg taacaccagt gaagctcaag tcaagagctg 120  
tg gatatttt gtctaacc aaagaagtct caagaaatca ggcagtgcag ctgctgctct 180  
cagctatcgt atccagccaa aagatgcatg atgatggagt ggtgggggaa ggccagttca 240  
gtatcctatt taaaagtaaa cttcctgaat aatggatata tgtggagata cagacataga 300  
tatatagata cagctgtaat tat tttagcct caagtgactt tctccattgc ttcacgctat 360  
gccactat ttgcttcttta atttttttaa ctttgcttag tattctatag tttgcccac 420  
cagttttacg tccaaggaaa attagccaat gcataaaaata tacaaactat gaaaggcaag 480  
gwtcaggaaa ccagagactt tgccaccaa tctcagatta ttagaaacta ggtgtcaggg 540  
tttatcaaga aggccaggaa ggccttttgg gttaagcctt acattcatga agaacctcga 600  
gggtagattt ttgagagcat tccaaatgaa tgggtctctgg tcaaataaat gaatgggtcaa 660  
atgaataaat ctgccctcac agagatacaa aaggaaaagg aatataatc ataccatttg 720  
gtttaagcct taçattcatg aagaacctca agggtagatt tttgagatca ttccaaatga 780  
agtcgaatct gccctcacag agacacaaga aaggaatata attcatcac tattgcattt 840  
ttaataaatc ttttgaaatt tgcagaatta gattgtattg tgtattttcg gttaaatgat 900  
aattgaatgt aaatatttag atgcagcacc atattttata acccagcttt agcattttctt 960  
catattttta ggaaaccccc cactccttc ttttaagggc gcttcttgct ctctgaaatg 1020  
ccctgctaaa tgcttctctt aattatttga ataaggtagt ttggaataaa gaaagaaaag 1080  
atcactctac atacagatag taaacttaat ttgtgatcct atatatgaga cagtataaaa 1140  
atmcagataa gtttttagaaa gactcaaac aatatgtaaa tgactgatgt ttgcattatt 1200  
aagg naract tgggatgttg ggtcaagagg ggaaagtgtt agtcaatcca ctttgagca 1260  
atatcatgaa ggtcaattat aattccatat accttcttt gatgccacag tcagagatag 1320  
atacagttgg gtggccatgg gtgtgcccac acagacaatt tttggtnaat tgtttcagac 1380  
nttcaggtct gagactgnca ntgctggggg gcctcctggg tt 1422



195

<210> 300  
<211> 553  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (484)  
<223> n equals a,t,g, or c

<400> 300  
gccacgcgt cccgatgggtt cttctattca ggcttcaatg gacaggcacc ttcgggatca 60  
aagtacagag cagtcacccat ctgatcttcc tcaaaggara acagaagttg tgagttcttc 120  
tgcaaagtct gggagtcttc agactgggtt gcctgaatct tttcctttaa ctggtggtac 180  
tgaaaatttg aatacagaaa caactgatgg ctgtgtagca gatgcactgg gagcagcctt 240  
tgccacaagg tcaaaagcac aaaggggaaa ttccgtggag gagcttgaag agatggatag 300  
tcaagatgct gagatgacta acacaactga gccaatggat cactcttgat ttaattagag 360  
gctaataaag gcagaatggt tattgtgaat atgtaatat tggtggctgg gccacgtaac 420  
ttgattagtc attaaaaatc ttgtacgtat ataaaaagat tatactcttg tattcagtgc 480  
atgntagcaa gtgtgtgatt ggccatagct tttaatatac tgctgcccag gctggctctg 540  
aatttctata aat 553

<210> 301  
<211> 464  
<212> DNA  
<213> Homo sapiens

<400> 301  
ctcaaaaatc accagaaaac tcatactagt gaaaaatcct ataaatgtaa tgaatgtaga 60  
aaggccttta gttactgctc tgggtcttatt caatgtcagg tcattcatac tatagaaaaa 120  
ccttatgaat acggtaaatg tggcaaagcc tttaggcaga ggacagacct taaaaaacat 180  
cagaaaatgc ataccgarga gaaaccctat gaatgtaatg aatgtgggaa agcctttagc 240  
cagagcacat atcttacaaa acacacaaaa attcatagtg aagagaaatc aaatatacat 300  
actgagtgtg gggaaaccwt twgrcaaaac tcttcttttt tacaacaata aaaacctcac 360  
actggagaga ttctctgaat gccttaagaa tttggttaat atggagaccc ttcccagggg 420  
aaccagaagg aggatcgtga aaacctgttg actacttaga tgat 464

<210> 302  
<211> 2018  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (1997)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2012)  
<223> n equals a,t,g, or c

196

&lt;400&gt; 302

```

gccacatccc ggcagccctc ctacckgcgc acgtggtgcc gccgctgctg cctcccgcctc 60
gccctgaacc cagtgcctgc agccatggct cccggccagc tcgccttatt tagtgtctct 120
gacaaaaccg gccttggtga atttgcaaga aacctgaccg ctcttggttt gaatctggctc 180
gcttccggag ggactgcaaa agctctcagg gatgctggctc tggcagtcag agatgtctct 240
gagttgacgg gatttcctga aatgttgggg ggacgtgtga aaactttgca tcctgcagtc 300
catgctggaa tcctagctcg taatattcca gaagataatg ctgacatggc cagacttgat 360
ttcaatctta taagagtgtg tgcctgcaat ctctatccct ttgtaaagac agtggcctct 420
ccaggtgtaa stgttgagga ggctgtggag caaattgaca ttggtggagt aaccttactg 480
agagctgcag ccaaaaacca cgctcgagtg acagtgggtg gtgaaccaga ggactatgtg 540
gtggtgtcca cggagatgca gagctccgag agtaaggaca cctccttgga gactagacgc 600
cagttagcct tgaaggcatt cactcatagc gcacaatatg atgaagcaat ttcagattat 660
ttcaggaaac agtacagcaa aggcgtatct cagatgccct tgagatatgg aatgaacca 720
catcagaccc ctgcccagct gtacacactg cagcccaagc ttcccatcac agttctaat 780
ggagccccctg gatattataaa cttgtgcgat gctttgaacg cctggcagct ggtgaaggaa 840
ctcaaggagg ctttaggtat tccagccgct gcctctttca aacatgtcag cccagcaggt 900
gctgctgttg gaattccact cagtgaagat gaggccaaag tctgcatggt ttatgatctc 960
tataaaaccc tcacacccat ctcagcggca tatgcaagag caagaggggc tgataggatg 1020
tcttcatttg gtgattttgt tgcattgtcc gatgtttgtg atgtaccaac tgcaaaaatt 1080
atctccagag aagtatctga tgggtataatt gcccaggat atgaagaaga agccttgaca 1140
atactttcca aaaagaaaaa tggaaactat tgtgtccttc agatggacca atcttacaaa 1200
ccagatgaaa atgaagtctg aactctcttt ggtcttcatt taagccagaa gagaaataat 1260
ggtgtcgtcg acaagtcatt atttagcaat gttgttacca aaaataaaga ttgcccagag 1320
tctgcctcc gagacctcat cgtagccacc attgctgtca agtacactca gtctaactct 1380
gtgtgctacg ccaagaacgg gcaggttatc ggcattggag caggacagca gtctcgtata 1440
cactgcactc gccttgacgg agataaggca aactattggt ggcttagaca ccatccacaa 1500
gtgctttcga tgaagtttaa aacaggagtg aagagagcag aaatctccaa tgccatcgat 1560
caatatgtga ctggaacat tggcgaggat gaagatttga taaagtggaa ggcactgttt 1620
gaggaagtcc ctgagttact cactgaggca gagaagaagg aatgggttga gaaactgact 1680
gaagtttcta tcagctctga tgccttcttc cctttccgag ataacgtaga cagagctaaa 1740
aggagtgggt tggcgtagat tgcggctcct ccggttctgc tgctgacaaa gttgtgattg 1800
aggcctgcga cgaactggga atcctcctcg ctcatacgaa cttcggtctt tccaccactg 1860
atctttaccac acactgtttt ttggcttgct tatgtgtagg tgaacagtca cgctgaaac 1920
tttgaggata acttttttaa aaaataaaac agtatctctt aatcactgga aaaaaaaaaa 1980
aaaaaaaaaa aaaaccncgg gggggggccc gnacccca 2018

```

&lt;210&gt; 303

&lt;211&gt; 658

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (621)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 303

```

gacatttagg aacaattgca cttttaaagg gagagaatgc atagttgctc acatatctca 60
gtgtcagtca cctaacaatg atcagtgtt tatttgagat taaaaaacta gaaaatgacg 120
gagtcaaggc taggaccaat attctgttca gtcttagata attatagaat acacattaaa 180

```

197

```

atcagatatt tgaattttct taattttgta actatttgtc attgaaagga gataactaaaa 240
aaattatata tcgtcctaga aagtacatga actaataatg catttctaaa ggtgaaaaaa 300
gaataggtat ttttctgttt aatattcaat ttatagagag tagtacgtta atttttttta 360
acccagaaag ctcaggatct tatcatttta aaagaaatta tcaccagttc tgtgtgagta 420
aataaagtat tataacactt tgttttttca tccatgatac cttgtattta cttacctgag 480
ctttttttct agggaaagaa aaatgctcag gtaataacag agccttgaaa aattkggatt 540
ttcaaaacta cctatttatg tataggcctt tagatcatct gatgttgaat actctttaag 600
tgatctaaag gcctacatat naaaagggtat ttttattaaa ttctggatta aacatttc 658

```

&lt;210&gt; 304

&lt;211&gt; 671

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (524)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (593)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (657)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (659)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (671)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 304

```

tttacttaat cttgcctagt cacaaaataa gatgtgcacc catggtttgg agagtctcta 60
tattagctga gcagtgagat acactatttc caaacggtgc acacctacag tagctttgga 120
aatgagccaa tcaactgtttt acttaatggt tcttatcagc atgcaaatat tgcttgaaag 180
ttatttcctt attcaactgtt ttgttagtcc attttgttag gaaacattaa ttcctaaaaa 240
tttgttcaga ataattaaaa gtgaacattt ggtgctgata ctcaaaaacc tacaaatgta 300
gccattttaa aagtaacatg tttttctccc ctgctcattg cctgggagaa tgggaatttta 360
tataactacc tttcttttgc aaaataacgg tcgtgtcgag ttggtggtga ttttggcatt 420
ccatcttgca ctggttttcta gtataggctt agaaataatt ggcaggtaat aatctttcca 480
gtcaagttgc aagggatgct tatttctctt caaaaaaaga catnctgcgg gattgagtag 540
aaaatttagg tcagtttggg agcttatttg aatattttct actacattgg agntagcagt 600
ctttttctgg atcagatcag tgcattggtta tctacagggt gaatgcttct tgggtgngna 660

```

agatctagct n

671

&lt;210&gt; 305

&lt;211&gt; 1680

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 305

```

ccaaagtgct ggaattccag gcatgagcca ctgcgccag tctacacact aattcttgtt 60
agcccaacag ctgttctgtt ctatctaccc ctcatctcac gctcaaggag tcatacctag 120
aatagttaca cacaagaggg aaactggaag ccaaacactg tacagtattg tgtagaaagt 180
cacctcccta ctctttttat ttacatgag tgctgatgtg ttttggcaga tgagctttca 240
gctgaggcct gatggaaatt gagataacct gcaaagacat aacagtattt atgagttata 300
tcttagttct tgaaattgtg gaatgcatga ttgacaatat atttttaatt tttatttttt 360
caagtaatac cagtactgtt taactatagc cagaactggc taaaattttt atattttcag 420
agttgaagtt ggtgaagaca ttcattgattt aaacaccaga tcctgaaagg ggttaaattct 480
actttgaaat gaatctgcaa tcagtatttc aaagcttttc tggtaatttt agtgatctta 540
tttgattaga ctttttcaga agtactaaat aaggaatttt aacaggtttt tattaatgca 600
cagataaata gaagtacagt gaggtctata gccattttat taaaatagct taaaagtttg 660
taaaaaaatg aatctttgta attacttaat atgttagtta agaaccgctc aagcttatat 720
ttgctagact tacaaattat tttaaatgca tttatctttt ttgacactat tcagtggaat 780
gtgtaagcta gctaattctt gttttctgat ttaaagcact tttaaatctt atcctgcccc 840
ctaaaaacaa aaggttttga tcacaagggg aaatttaaga ttgttaacct tgtttttcag 900
aagggtact gttaattgca cataaacatg aaatgtgttt tcccctgtgt actaacacat 960
tctaggcaaa attcaaactt atagtggtaa agaaacagggt tgttcacttg ctgaggtgca 1020
aaaattctta agacttctgt ttgaaattgc tcaatgacta ggaaaagatg tagtagttta 1080
ctaaaattgt ttttctacca tatcaaatta aacaattcat gcctttatag ggtcaggcct 1140
acaatgaata ggtatggtgg tttcacagaa ttttaaaata gagttaaagg gaagtgatgt 1200
acatttcggg ggcattaggg tagggagatg aatcaaaaaa tacccttagt aatgctttat 1260
attttaatac tgcaaaagct ttacaaatgg aaaccatgca attacctgcc ttagttcttt 1320
tgtcataaaa acaatcactt ggttggttgt attgtagcta ttacttatac agcaacattt 1380
cttcaattag cagtctagac attttataaa cagaaatctt ggaccaattg ataattttc 1440
tgactgtatt aatatttttag tgctataaaa tactatgtga atctcttaaa aatctgacat 1500
tttacagtct gtattagaca tactgttttt ataattgttt acttctgcct taagatttag 1560
gttttttaaa tgtatttttg ccctgaatta agtgtaatt tgatggaaac tctgctttta 1620
aaatcatcat ttactgggtt ctaataaatt aaaaattaaa cttgaaaaaa aaaaaaacga 1680

```

&lt;210&gt; 306

&lt;211&gt; 782

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 306

```

gaattcggca cgagtgaagc attagaatga ttccaacact gctcttctgc accatgagac 60
caaccaggg caagatccca tccatcaca tcagcctacc tccctcctgg ctgctggcca 120
ggatgtcgcc agcattacct tccactgcct ttctccctgg gaagcagcac agctgagact 180
gggcaccagg ccacctctgt tgggaccac aggaaagagt gtggcagcaa ctgcctggct 240
gacctttcta tcttctctag gctcaggtac tgctctcca tgcccatggc tgggccgtgg 300
ggagaagaag ctctcatacg ccttccact ccctctggtt tataggactt cactccctag 360
ccaacaggag aggaggcctc ctggggtttc ccaggggcag taggtcaaac gacctcatca 420
cagtcttctt tcctcttcaa gcgtttcatg ttgaacacag ctctctccrc tcccttgtga 480

```

## 199

```

ttttctgaggg tcaccactgc cagcctcagg caacatagag agcctcctgt tctttctatg 540
cttgggtctga ctgagcctaa agttgagaaa atgggtggcc aaggccagtg ccagtgtctt 600
ggggccctt tggctctccc tcaactctctg aggctccagc tggctcctggg acatgcagcc 660
aggactgtga gtctgggcas gtccaaggcc tgcaccttca agaagtggaa taaatgtggc 720
ctttgtcttct gttaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 780
aa 782

```

```

<210> 307
<211> 1791
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (487)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (515)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1769)
<223> n equals a,t,g, or c

```

```

<400> 307
ggggattgtt cctgaaacat tcacgctgtc caatctccca catttcagaa ttggtgggag 60
tgtgcatttg attgttaata accagctggg ttacaccact ccagctgaaa gaggaagggtc 120
ttctttatac tgcagtgata ttgggaagct tgtgggctgt gccatcatcc atgtcaatgg 180
agacagccca gaggaagtgg tccgtgccac acgactggct tttgaatacc aacgccagtt 240
ccgcaaggat gtgattattg atctgtttgt ctacaggcag tggggccaca atgagctgga 300
tgagccattc tacaccaacc ccacatcatgta caaaatcatc agagctcgaa agagcattcc 360
agacacatat gcagagcacc tcattgctgg cggaactcatg acgcaggagg aggtgtctga 420
aataaaatcc tctactatg ccaagttgaa tgatcactta aataacatgg cccactacag 480
gccccntgc cctgaacctg caggccayt ggcangggcc tgggtcagcc agaagsgcaa 540
wtcaccacct ggagtacagg tgtgcccctc gacctcctgc ggtttggttg catgragtyt 600
ktagagggtc caagrgagyt gcagwtgcac agtcamctgy tgragacaca tgttcagtcc 660
agaatggaga agatgatgga cggaatcaag ctagactggg ccaccgcgga actcttcgct 720
tgggttcttt acttgctcaa ggttttaatg ttcgtctaag tggccaagat gttggtcgtg 780
gaactttcag tcagaggcat gcaatggtgg tttgccagga gacggatgac acctacatcc 840
ccctgaacca tatggacca aatcagaagg ggtttctaga ggtcagcaac agccccctgt 900
cagaagaggc cgtcctggga ttcgaatatg ggatgagcat tgagagccca aagttactgc 960
ccctgtggga ggcacagttt ggcgatttct tcaatggtgc ccagatcatc tttgacacat 1020
tcctctctgg aggagaggcc aagtggctcc tacaaaggcg cattgtcatc ctcttccac 1080
atggctacga tggggctggg ccagaccact catcctgtcg aatagagcgt ttctgcaga 1140
tgtgtgacag tgcggaagag ggggtggacg gagacactgt gaacatgttt gtggttcacc 1200
caacaactcc tgcacagtat ttccacttgc ttaggagaca gatgggtccg aacttcagaa 1260
aaccactcat tgttgcttcc cctaagatgt tactcargct cccggcagcc gtgtcaactc 1320
ttcaagaaat ggcaccagga acaacattta acccggtcat tggtgattca tctgtggatc 1380

```

## 200

caaaaaaggt taagaccctc gktttctgct cgggcaaaca tttctactcc ctggtgaaca 1440  
aagagaatct ctggggggcca agaagcatga ctttgccatc atccgagtag aggaactctg 1500  
ccccttcccc ttggattctt tacagcaaga gatgagcarr tacaacatg ttaaagatca 1560  
tattttggagt caggaggaac ctcagaacat ggggtccgtgg tcgtttgttt ctccaagggt 1620  
tgaaaagcag ctggcctgca agctccgtct ggtggccggc cccctttgcc agtaccgcgt 1680  
gtaggaattg gcacagttca cttgcaccag catgaagata tcctcgccaa gaccttcgyt 1740  
tgatgatgat tttgaaggaa catatttcnt ttaggaatgg cattaggccc t 1791

<210> 308

<211> 723

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (705)

<223> n equals a,t,g, or c

<400> 308

gggcaagacc tcatgcctaa aaaataaaga gaaagcagag taaaactgga ctctgagata 60  
ygactaaaagt tctgtgtgat acgtgtgcct tatttagctc aagacattcc tggagcacct 120  
ataaaaaactg acttgtaatc caggctatgt ctcttttttag cttcgtaatc tttggcaagg 180  
ccattggatt cttcagctgt acaattagga gactcgatca ggtgattgcc tttctcagct 240  
gtcagttctc taatttcagg cttggtagct tgtaggaact gaaattgcaa ttaaaacctt 300  
tataaactca aactaaatca tgaattacag aaaaagtcca ttcttccaaa acttgatggt 360  
accacactta caagttttaa atatgaagtc gactgtttta aggattctgc atatattcta 420  
gtgtgcacat tcagaaacat ttttcttgga aaaagtaccc aacatttttt ataactgcac 480  
atattaattt attgccagaa taaattgcat tgcattgctaa ataaagtcag ataattcaaa 540  
tccatttgct tttatgtagt ttttcttcta aatgtcaaca ttttggaatt aaaatgttta 600  
tggttttata tgagggtagg aaatcttaac tgctttgggg ggtattgttt ataggctttt 660  
tgttatgggg ccggtagttt tttaataggg ggattgcccc tttcnaccgt ttggggggccc 720  
ggg 723

<210> 309

<211> 533

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (393)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (396)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (463)

## 201

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (527)

<223> n equals a,t,g, or c

<400> 309

```
aattcggcac gagcgacgtg gtgctgggcg ttgggaccct actttatcta gttcgggaag 60
ttgggttggtg gggtcatacc tgtctgtctg ctccagctt tcttgggttt cttccgacgg 120
cgtggggcct cgctaaggaa ttcccggccc ctcagggcca cggcttttagc ggtgtctttt 180
gcgagttctt cgtaagtaca tcttaaagct gtcaagatgg ttctagcaga ctttggaaga 240
aaaataacat cagcattacg ctcgttgagc aatgccacca ttatcaatga agaggtatgt 300
aaaatattgt atgraatata tatgattgta ttattgtcac tagcattggg aagatggctt 360
attcataatc cccgtattta tatgtatttt gangtngact taatacttgt gggtaaaagc 420
ccaaaggggt taacagtagg aggggtttat tggggaatta ccnccaactc aaattacttc 480
aaccttcctt aagggatttc ccaaaaaaaaa aaaaaaccgg ggggggnccc cga 533
```

<210> 310

<211> 763

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (317)

<223> n equals a,t,g, or c

<400> 310

```
gtttggaata aagaaagaaa agtttactat ctgtatgtag agtgatctta atttgtgatc 60
ctatatatga gacagtataa aaatacagat aagttttaga aagactcaaa acaatatgta 120
aatgactgat gtttgcatta ttaaggaaaa cttgggatgt tgggtcaaga ggggaaagtg 180
ttagtcaatc cactttggag caatatcatg aaggtcaatt ataattccat atacctttct 240
ttgatgccac agtcrgagat asaatacart ttgggtggcc atggatgtgc cccaatacag 300
tacacathtt tkggttnaaa tttgttttca gatcatttca tggaatcttt gaagtatctt 360
tgactctaac tttgacttgg tgggtggacct tccttgggtt ttataacacc taagagatat 420
cctttagaat tacatgtatt ttagcataag gaaattgaaa aagtaaaaca tactgggttt 480
tttcaacaag accatatgta aattaaatag tgaaatgtgt atgagtttca gtagaactgt 540
accatcaaca atgtttccat aaatatgcag agttctttct tttgtattgt tatttacaat 600
attgtttaat tgaatgcatt tgcaatttct aggattctaa agaattgagt acagaaagta 660
gcaattttat tatttgatga taatatgaga attactgtgc caatactgtt ttgataaata 720
aatagathtt taaaaataaa tgtattgtac ttattagtgt agt 763
```

<210> 311

<211> 3131

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

## 202

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3128)

<223> n equals a,t,g, or c

<400> 311

```
gggnncaaan gctggagctc caccngggtg cgtecgctct agaactagtg gatcccccg 60
gctgcaggat tcggcacgag gccacttcct ggggcccgcc gcggggccgc tggctgcact 120
cagcgccgga gccgggagct agcggccgcc gccatgtccc accagaccgg catccaagca 180
agtgaagatg ttaaagagat ctttgccaga gccagaaatg gaaagtacag acttctgaaa 240
atatctattg aaaatgagca acttgtgatt ggatcatata gtcagccttc agattcctgg 300
gataaggatt atgattcctt tgttttacct ctgttgagg acaacaacc atgctatata 360
ttattcaggt tagattctca gaatgccag ggatatgaat ggatattcat tgcattggtct 420
ccagatcatt ctcatgttcg tcaaaaaatg ttgtatgcag caacaagagc aactctgaag 480
aaggaatttg gaggtggcca cattaaagat gaagtatttg gaacagtaaa ggaagatgta 540
tcattacatg gatataaaaa atacttgctg tcacaatctt cccctgcccc actgactgca 600
gctgaggaag aactacgaca gattaaaaatc aatgagggtac agactgacgt ggggtgtggac 660
actaagcatc aaacactaca aggagtagca tttcccatct ctcgagaarc ctttcagggt 720
ttggaaaaat tgaataatag acagctcaac tatgtgcagt tggaaataga tataaaaaat 780
gaaattataa ttttggccaa cacaacaaat acagaactga aagatttgcc aaagaggatt 840
ccaaggatt cagctcggtt ccatttcttt ctgtataaac attcccatga aggagactat 900
ttagagtcca tagtttttat ttattcaatg cctggataca catgcagtat aagagagcgg 960
atgctgtatt ctagctgcaa gagccgtctg ctagaaattg tagaaagaca actacaaatg 1020
gatgtaatta gaaagatcga gatagacaat ggggatgagt tgactgcaga cttcctttat 1080
gaagaagtac atccaagca gcatgcacac aagcaaagtt ttgcaaaacc aaaaggctct 1140
gcaggaaaaa gaggaattcg aagactaatt aggggccag cgaaaactga agctactact 1200
gattaaagtc atcacattaa acattgtaat actagttttt taaaagtcca gcttttagta 1260
caggagaact gaaatcattc catgttgata taaagtaggg aaaaaattg tactttttgg 1320
aaaatagcac ttttcacttc tgtgtgtttt taaaattaat gttatagaag actcatgatt 1380
tctatttttg agttaaagct agaaaagggt tcaacataat gtttaatttt gtcacactgt 1440
tttcatagcg ttgattccac acttcaaata cttcttaaaa ttttatacag ttgggccagt 1500
tctagaaagt ctgatgtctc aaagggtaaa cttactactt tcttgtggga cagaaagacc 1560
ttaaataatt catattactt aatgaatatg ttaaggacca ggctagagta ttttctaagc 1620
tggaaactta gtgtgccttg gaaaaggccg caagttgctt actccgagta gctgtgctag 1680
```



203

```

ctctgtcaga ctgtaggac atgtctgcaa cttttagaaa tagtgcttta tattgcagca 1740
gtcttttata tttgactttt ttttaatagc attaaaattg cagatcagct cactctgaaa 1800
ctttaagggt accagatatt ttctatactg caggatttct gatgacattg aaagacttta 1860
aacagcctta gtaaattatc tttctaattg tctgtgaggg caaacattta tgttcagatt 1920
gaaattttaa ttaatatcat tcaaaaggaa acaaaaaatg ttgagtttta aaaatcagga 1980
ttgacttttt tctccaaaac catacattta tggggcaaatt gtgttcttta tcacttccga 2040
gcaaatactc agattttaaa ttactttaaa gtcctgggtac ttaacaggct aacgtagata 2100
aacaccttaa taatctcagt taatactgta tttcaaaaca catttaactg ttttctaattg 2160
ctttgcatta tcagttacaa cctagagaga ttttgagcct catatttctt tgatacttga 2220
aatagaggga gctagaacac ttaatgttta atctgtttaa cctgctgcaa gagccataac 2280
tttgaggcat tttctaaatg aactgtgggg atccaggatt tgtaatttct tgatctaaac 2340
tttatgctgc ataaatcact tatcggaat gcacatttca tagtgtgaag cactcatttc 2400
taaaccctat tatctaagg taaatatgca cctttcagaa atttgtgttc gagtaagtaa 2460
agcatattag aataattgtg gggtgacaga tttttaaaat agaattttaga gtatttgggg 2520
ttttgtttgt ttacaaataa tcagactata atatttaaac atgcaaaata actgacaata 2580
atgttgcact tgtttactaa agatataagt tgttccatgg gtgtacacgt agacagacac 2640
acatacacc aaattattgc attaagaatc ctggagcaga ccatagctga agctgttatt 2700
ttcagtcagg aagactacct gtcataagg tataaaataa tttagaagt aatgtttttc 2760
tgtaccatct atgtgcaatt atactctaaa ttccactaca ctacattaaa gtaaatggac 2820
attccagaat atagatgtga ttatagtctt aaactaatta ttattaaacc aatgattgct 2880
gaaaatcagt gatgcatttg ttatagagta taactcatcg tttacagtat gttttagttg 2940
gcagtatcat acctagatgg tgaataacat attcccagta aatttatata gcagtgaaga 3000
attacatgcc ttctgggtgga cattttataa gtgcatttta tatcacaata aaaatttttt 3060
ctctttaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 3120
aaaaaaaaaa a                                     3131

```

&lt;210&gt; 312

&lt;211&gt; 940

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (135)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (890)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (929)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 312

```

aagcgtgact ctggagatgg agtccaagtt ggcggcagaa aagaaacaga cggaacaact 60
gtcacttgag ctggaagtag cactgactcca gctacaaggt ctggaactta gttctcggtc 120
tttgcttggc atcgnacacag aagatgctat tcaaggccga aatgagagct gtgacatata 180
aaaagaacat acttcagaaa ctacagaaag aacaccaaag catgatgttc atcagatttg 240

```

204

```

tgataaagat gctcagcagg acctcaatct agacattgag aaaataactg agactgggtgc 300
agtgaaaccc acaggagagt gctctgggga acagtcccca gataccaatt atgagcctcc 360
aggggaagat aaaaccagg gctcttcaga atgcatttct gaattgtcat tttctgggtcc 420
taatgctttg gtacctatgg atttcctggg gaatcaggaa aatatccaaa atcttcaact 480
gcgggtaaaa gagacatcaa atgagaatct gagattactt catgtgatag aggaccgtga 540
cagaaaagtt gaaagtttgc taaatgaaat gaaagaatta gactcaaac tccattttaca 600
ggaggtacaa ctaatgacca aaattgaagc atgcatagaa ttggaaaaaa tagttgggga 660
acttaagaaa gaaaactcag atttaagtga aaaattggaa tatttttctt gtgatcacca 720
ggagttactc cagagagtag aaacttctga aggcctcaat tctgatttag aaatgcatgc 780
agataaatca tcacgtgaag atattgggag ataatgtggc caaggatgaat gacagctggg 840
aaggagagat ttcttgatgt gggaaattga gctgagtagg gtccagatcn ggagaaagct 900
agcctttgag ccttgaagcc ctcttacng gggaggcttg 940

```

&lt;210&gt; 313

&lt;211&gt; 850

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (848)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 313

```

caaagttagt ttttaacgtt tgtaaagggt tgaatgttta tagaagtgca tcatgaaatt 60
ttgtgtaaat ccagatgaac tgtcattata gtactataaa ttagagatag tccataaagt 120
tgggttgaag gagattgaaa atatttcctt tgattaaaag aaaataatta actaacttgg 180
gcttgcttgt gattgaagag ggagattaga tagtcctctg tccccccraa aaagaaacta 240
gcagagaaaag acmtaaaaaa gctctttggg gtctgttcat gtgctgtaca tttttccgt 300
tttaatgtct tgtgtagata attcaaagtt tgaactattt ctttcttggg ataagtaata 360
atattattcaa tatggtgtat ctctgagttc aatttaaac aatccaactc agtaatat 420
atttttaaat acaaatccta actaaccaat taattaataa aaaggcaaga cttacttgct 480
gtagtattgg ttctcatctg tagagaactg acattggagc aaattttaag tctcccttt 540
gaaaataagc cttgttaact gagggcgtaa tacatttccc acagatttat ccagaaacat 600
tttattagag atcttatagt agtatctcag ttcctactac agctttctaa aggatgagac 660
ttgcatttaa caaaatgaca tatataatat ttttctatag ttttgcaact gaattaaagg 720
aagggtgatgt attataatgt gtagtgaggt ataaagggct agttcattct ctcccaacaa 780
gaacttagaa taaaataaca cytttttttc atgagactta cctcattttt ggtaggctat 840
ggcagttntg 850

```

&lt;210&gt; 314

&lt;211&gt; 958

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (930)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

205

&lt;221&gt; misc feature

&lt;222&gt; (934)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 314

```

cttgcgtccc cgcgtgtgtg cgcctaattct caggtgggtcc acccgagacc ccttgagcac 60
caaccctagt cccccgcgcg gcccttatt cgctccgaca agatgaaaga aacaatcatg 120
aaccaggaaa aactcgccaa actgcaggca caagtgcgca ttggtgggaa aggaactgct 180
cgcagaaaga agaaggtggt tcatagaaca gccacagcag atgacaaaaa acttcagttc 240
tccttaaaga agttaggggt aaacaatatc tctggtattg aagaggtgaa tatgtttaca 300
aaccaaggaa cagtgatcca ctttaacaac cctaaagtcc aggcattctc ggcagcgaac 360
actttcacca ttacaggcca tgctgagaca aagcagctga cagaaatgct acccagcatc 420
ttaaaccagc ttggtgcgga tagtctgact agtttaagga gactggccga agctctgccc 480
aaacaatctg tggatggaaa agcaccactt gctactggag aggatgatga tgatgaagtt 540
ccagatcttg tggagaattt tgatgaggct tccaagaatg aggcaaactg aattgagtca 600
acttctgaag ataaaacctg aagaagttac tgggagctgc tattttatat tatgactgct 660
ttttaagaaa tttttgttta tggatctgat aaaatctaga tctctaatat ttttaagccc 720
aagccccttg gacactgcag ctcttttcag tttttgctta tacacaattc attctttgca 780
gctaattaag ccgaagaagc ctgggaatca agtttgaaac aaagattaat aaagttcttt 840
gcctagtaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 900
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gggnggccgt ttaaaggaa ccaggttt 958

```

&lt;210&gt; 315

&lt;211&gt; 500

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 315

```

cgattgaaca ggagaagcaa gcaggcgaat cgtaatgagg cgtgcgccgc caatatgcac 60
tgtacattcc acaagcattg ccttcttatt ttacttcttt tagctgttta actttgtaag 120
atgcaaagag gttggatcaa gtttaaatga ctgtgctgcc cttttcacat caaagaacta 180
ctgacaacga aggcgcgcgc tgcccttccc atctgtctat ctatctggct ggcagggaag 240
gaaagaactt gcatgttggt gaaggaagaa gtgggtgga agaagtgggg tgggacgaca 300
gtgaaatcta gagtaaaacc aagctggccc aaggtgtcct gcaggctgta atgcagttta 360
atcagagtgc catttttttt tttgttcaaa tgattttaat tattggaatg cacaattttt 420
ttaatatgca aataaaaagt ttaaaaactt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 480
gcggccgctc gaattaagcc 500

```

&lt;210&gt; 316

&lt;211&gt; 1228

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 316

```

ggcacgagct cgtgccgctt gcaactccac ctcagcagtg gtctctcagt cctctcaaag 60
caaggaaaga gtactgtgtg ctgagagacc atggcaaaga atcctccaga gaattgtgaa 120
gactgtcaca ttctaaatgc agaagctttt aaatccaaga aaatatgtaa atcacttaag 180
atttgtggac tgggtgtttg tatcctggcc ctaactctaa ttgtcctgtt ttgggggagc 240
aagcacttct ggccggagggt acccaaaaaa gcctatgaca tggagcacac tttctacagc 300
aatggagaga agaagaagat ttacatggaa attgatcctg tgaccagaac tgaaatatc 360
agaagcggaa atggcactga tgaaacattg gaagtgcacg actttaaaaa cggatacact 420

```

206

```

ggcatctact tcgtgggtct tcaaaaatgt tttatcaaaa ctcagattaa agtgattcct 480
gaatthttctg aaccagaaga ggaaatagat gagaatgaag aaattaccac aactthttctt 540
gaacagtcag tgatttggtt cccagcagaa aagcctattg aaaaccgaga tthttcttaaa 600
aattccaaaa ttctggagat ttgtgataac gtgaccatgt attggatcaa tcccactcta 660
atatcagttt ctgagttaca agactthtgag gaggaggagg aagatcttca cthttcctgcc 720
aacgaaaaaa aagggattga acaaaaatgaa cagtgggtgg tccctcaagt gaaagtagag 780
aagacccgtc acgccagaca agcaagtgaag gaagaacttc caataaatga ctatactgaa 840
aatggaatag aatttgatcc catgctggat gagagagggt attgttgat ttactgccgt 900
cgaggcaacc gctattgccg ccgcgtctgt gaacctttac taggctacta cccatatcca 960
tactgtacc aaggaggacg agtcatctgt cgtgtcatca tgccttgtaa ctggtgggtg 1020
gcccgcagtc tggggagggt ctaataggag gtttgagctc aaatgcttaa actgctggca 1080
acataataa atgcatgct attcaatgaa tthttgccta tgaggcatct ggccctgggt 1140
agccagctct ccagaattac ttgtaggtaa tthttctctt catgttctaa taaacttcta 1200
cattatcacc aaaaaaaaaa aaaaaaaaaa 1228

```

&lt;210&gt; 317

&lt;211&gt; 1731

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1661)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1726)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 317

```

gcaatctthtt tctctcctgg ttaaatgggg ctgttgatca tthttctctac gtaagggaa 60
ttattgatta agthtaatta atthgatata gactgtcatg tagtgatgta gtgctatact 120
gtagtcggaa gthttthctta aaagcaaaga gcaaaaatgc aaagthttat ttgtaaaagc 180
tgaggacctt tggggatgga ttaggtthtc cgatgatcct aaaagtaagc aaactgtatg 240
acaagactac tattgcaaat gaaggatatt tatagctaaa ctgcgcacac aaaagaagtt 300
ttatattgtg agthtatagtt ggthtcagaaa acagthttgta ctctccctgg cccaggaagg 360
cacacagaca aaaatgtcgg ccactthttac tcaaatagag cccaagcaca gacagtcagg 420
thctgtatca tcaccaacat ctgataaaat ctcatgaag gcaatgccat cacagcttht 480
ctcaattact acgaggaaga gacaacaagc atctthctgt ttgtctctgc tgattggagg 540
ctgaatagta gatggaatgg ggggacagtg tgcctgggtg gaggaagacg taagatcccc 600
matthtgaaa gcatgcccc ctccctthtt gtagaagccc atggthtgccc thtgccaaac 660
tggggaggag gcaatgagcc ttggtggaag gaacctctct gthgatattt aaagaagtga 720
gggctgtggg tattcattgt tagaaatgcc aatthtactt tgaaaccata gtccaagtct 780
ctaggttggt agaagggaaa ggaaggaagt ggtcccagtg attctagatc tggthgggaa 840
actthtgcct catgactctg thctthtgag cththggacag cagcacaaaa cataacaatt 900
thtattthtt aacagaccca thctthttga tcccacagga gctgtggtht ggtcgccgt 960
agccccggga tgtggtthta gtggattact gcctagctga gccaaaatgt thgcttgatc 1020
ctgttgagac actacagcaa accgctgctt acagtgcatt gtgtatttht gtagtactgt 1080
thtgcattht ccatagagac agaaaactth gcaagtcaat cactgttgth cccatggtac 1140
tgtaagaaaa aaaaaaagga aaaagaaaaa aaaaaagaaa accagccaat cattgcgtgt 1200

```

207

```

acagagctaa aaattgtaat taatagagcc tgttgggaaa aaaaagaaaa caactgttgc 1260
ctttttttct tgtataaaaag agaatttatg acaaaattta gctgtgagga atgtgatacg 1320
tgtttatatt tctgaatatg gracaaattg attcatgggg atatatttta atgtaaacta 1380
aatcaggatg gtaaagtgtg tttaaaatgg grgactatat aagtaattct ctaaagcttt 1440
agttggtttg aatatcatca tttcctccat ggtgagcctg cttgtgratt attaagcact 1500
tgtttgcatc ctctgttctt cactcattta tttcttgcat tgtgctatgg acttaatgct 1560
ctttctgtat tgatgaaaag cagtatgtgg gccaatcttt ttataaaaca ctatgcatat 1620
ataaatatta cattgttcat agctttatct gacttatggg nttatacata acattagaat 1680
gagtaagctg tagttgtgtg gacattttat aaaaacaaag gtcccnttcc c 1731

```

&lt;210&gt; 318

&lt;211&gt; 1208

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (29)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 318

```

cgggtcgacc cacgcgtccg gaaagatcnt ctttaggaat aatagatgat ggtaagttcc 60
acttttggtta ttggaaggca agtcattatt actggtatta gttaaaacac atatcaaattg 120
cttgctcttc atcatatata tagttatgca tacatacaca cacacacata cagtatatcc 180
tttcctcaaa aggggttaaga tgtctaaaat agggacctag aagcttaaca ctattttaagt 240
aaatacagta gaagctcaca aatagatttc tttgcacaat gattttttgc aaaattttac 300
agtaataata atcccaaggc aaatctctcc tgaactgctt tccattccat aatttgtagt 360
ataattcttg gattccactg ttttctttgg ggaatggaag ttctgaatta aaagcccact 420
gtggagatgc tgtggttcat ggaatctctt ccagtgtaat tcagaatcat tggcctagaa 480
agtctctgat atttggaggg gaacaaaaat cactcacaag caatccatga tctatacaca 540
taagcataat ttccttttagt tctagttagt catcagagaa cagtcatgta tgcaagtttt 600
gtgactgaga aattttctgtg cttccaatcc acaatgagat gcatgatttt gttttcatcc 660
catttcccc aagccccctgt aaatcagggg aaatgcgcaa ctgatcgccct aggagagggc 720
ctcgtagtgg cacagctgga gatagtttca aagtctaaac caccagccca tcctgaggaa 780
agcctcttat ggaatgtaaa gtgcaatcat ttcttcagat ataagacttt cccaacaat 840
gtgattggat tccttttatgg caaaatcgag agaagctgcc atccacctgc ttatgcattt 900
atctcttttg tggacttgct tgaccacctt ctatttgccc agagtttgct caattccaag 960
acagtgccca tgaatgggac acctgtaatg taaccacac agcggtttgc agagaatggt 1020
agccatgact tgggctttct gaaagtggc tataatttct ctatccctac ccacaaccct 1080
gggaagtgg agcaagaggg gcatactatt gggctgggag gatttgacag catttcccc 1140
gttgcccttt aagttcttct atttcaaacg ttaattttgc ttctctttct aaaaaaaaaa 1200
aaaaaaaaa 1208

```

&lt;210&gt; 319

&lt;211&gt; 756

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (30)

<223> n equals a,t,g, or c

<400> 319

```

ccccagtctt accactctag catgcttgn ataataaaca tggtagtgga cttttttcta 60
aagatcccc ctctctcaga ggtcatgtcc ttctgtaacc agcccttgct cttgaacccc 120
cakgcagttt ggtgggttatg ccaaggaagc agactacgta gcacaagcca cccgtctgcg 180
tgctgccctg gagggcacag ccacctaccg gggggacatc tacttctgca cgggttatga 240
ccctcccatg aagccctacg gacggcgcaa tgagatctgg ctggtgaaga catgagtgc 300
ccactgaacc aagaacttac tggaagtgtg cctctgtgtc tccttcctcg ggggtaagga 360
ggggacagtg cttcccaagt tccagctgca agtccaactt aaccaacttt cttcaaagt 420
cagttactgc caattttctg aaaaaagcat gttccatata ctaagtctct tttctcacgg 480
taggaaataa tacagccaag atatgcagca tccttctcat tgatgtagaa aattctgcga 540
tagaccagaa aaatcctggc agcttttctc caggcatctg ggtcactaaa aactgatttt 600
ctaaaattat tggatttgta ttttgttatt aagggggaaa atgtgatttg tgcctgatct 660
ttcatctgtg attcttataa gagctttgtc ttcagaaaaa ctaaaaataa aaggcattga 720
cttaaacagc tgaramaaaa aaaaaaaaaa aaaaaa 756

```

<210> 320

<211> 1209

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1203)

<223> n equals a,t,g, or c

<400> 320

```

cttcgccgtc atccgcttcg aaagcatcat ccacgagttc gaccgcgtgg ttaactatag 60
atcaacacat catcttgcat ctcattgggt ctatgaattt ttaaattggg ttgatgaaag 120
agcatgggat ccactaggaa gaatagtagg tggtagtggt taccagggtg tgatgataac 180
cgctggcctt attcattgga ttttaaatac attgaacata actgttcaca taagagacgt 240
atgtgtgttc cttgcaccaa ctttttagcg cttacatct atactactt tcctgcttac 300
aagagaactt tggaaccaag gagcaggact tttagctgct tggtttattg ctattgtacc 360
aggctacata tctcggtcag tagctggatc ctttgataat gaaggcattg ctatttttgc 420
acttcagttc acatactatt tatgggtaaa atctgtaaaa actgggtcag ttttttggac 480
aatgtgctgc tgcttatcct atttctatat ggtctctgct tgggggtgggt atgtatttat 540
catcaatctt attccactgc atgtatttgt gttgttactg atgcagagat acagcaaaag 600
agtctacata gcatatagca ctttctacat tgtgggttta atattatcaa tgcagatacc 660
ttttgtggga ttccagccaa tcagaacaag tgaacacatg gcagctgcag gtgtccttgc 720
attgctgcaa gcttatgctt tcttgtagta tctgagagac cgattaacaa aacaagagtt 780
ccagaccctt ttcttttttg gtgtatcact agctgcaggt gctgtgttcc ttagtgtcat 840
ctatttgact tatacagggt acattgcacc atggagtggc aggttttatt cattgtggga 900
tactgggtat gcaaaaatac acattccaat tattgcatca gtgtctgagc atcaacctac 960
gacttgggtg tctttcttct ttgatctaca tattcttgta tgtaccttcc cagcaggcct 1020
ttggttctgc atcaaaaata tcaacgatga aagartattt ggtaagagag gtttttaatt 1080
actactttga tatggaatag ttatttttct ttttgagatt atttacttta aatttttgtt 1140
tttctatgtt tgactctata tattcaagat aaattttctc ctttattttg cataggtgct 1200
tanccaaga 1209

```

<210> 321

209

&lt;211&gt; 668

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (653)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (654)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 321

```
aaagcagatg ccatctatga tatgattggg ttcccagact ttatcctgga gcccaaagag 60
ctggatgatg tttatgacgg gtacgtaaat ttctgaagrt tctttcttcc aaaacatggt 120
gaatttgtac aacttctctg ccaagggttat ggctgaccag ctccgcaagc ctcccagccg 180
agaccagtgg agcatgaccc cccagacagt gaatgcctac taccttccaa ctaagaatga 240
gatcgtcttc cccgctggca tcctgcaggc ccccttctat gcccgcaacc accccaaggc 300
cctgaacttc ggtggcatcg gtgtgggtcat gggccatgag ttgacgsatg cctttgatga 360
ccaagggcgc gagtatgaca aagaagggaa cctgcggccc tgggtggcaga atgagtccct 420
ggcagccttc cggaaccaca cggcctgcat ggaggaacag tacaatcaat accaggtcaa 480
tggggagagg ctcaacggcc gccagacgct gggggagaaac attgctgaca acgggggggt 540
gaagctgcct acaatgctta caaagcatgg ctgagaaaagc atggggagga gcagcaaytg 600
cagccgtggg ggttamcaac caccastytt cttcgtggga ttgccccag gtnntggtgc 660
tcggtccg
```

&lt;210&gt; 322

&lt;211&gt; 809

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (372)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 322

```
ggctgcagga attcggcacg agtgttaggg taaaaagtga attaaagcaa caggactatt 60
tataaaataa ttagatttag aaagcagtcg tagaaatata agcctggagt tgcctctgaa 120
ttacatattt aacaaacctt gaagctaaat cagtttgtct tttatcaaaa ctgcaactcc 180
tctaagttga aagcacagtg acaagagaaa gcattacaaa ttcttgagaa ataatagaaa 240
ttaaagctct tttcaaacct gtgaacaagt atagtaccag aagtataaga ttcagatagg 300
cccaagttgt agttcttggt atgagtctta caaccctatg gactttggac aaattacttc 360
tctgcgtctg tntcctcatc tgtaaaatga aaataatttc tgtttcatac aggtatagtc 420
taaataggga taattacacc tacttcaaag ttgtaaaata cacaattaca actagatagg 480
aggtataagt tctagtgttc tgtagcactg taggatgact atagttaaca atattgtata 540
gtttcaaata gctagaagaa ggatattgca tgttcccaaa acaaagacat aagtttttga 600
gatgatagat atgctaatta ccctaatac tatatgttat atgtattgca acatcactat 660
gtaccccat aaatatgtac agttattgtg tattaaaatt tttttaact aaaattataa 720
```

## 210

gacattaaaa aaaggtatca catgtaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 780  
aaaaaaaaaa aaaaaaaaaa tcgaggggg 809

<210> 323  
<211> 1442  
<212> DNA  
<213> Homo sapiens

<400> 323  
ggcacgaggt tccctatcct gggccagttc tctcgcaggt cccagatgtc cagttccaga 60  
tgcctggacc cagagtgtgg gggaaatatc tctggagaag ccctcactcc aaaggctgtc 120  
caggcgcaat gtggtggctg cttctctggg gagtcctcca ggcttgcca acccggggt 180  
ccgtcctctt ggcccaagag ctaccccgag agctgacatc ccccggttac ccagagccgt 240  
atggcaaaag ccaagagagc agcacggaca tcaaggctcc agagggcttt gctgtgaggc 300  
tcgtcttcca ggacttcgac ctggagccgt cccaggactg tgcaggggac tctgtcacag 360  
tgagctgggg atgggggggg tccccccagg actgtggcca gggagattcc cggggttgtg 420  
ggaagtggcg gtgccctgaa tccccatct ggaggaggga tgaattttcc atgtaggggc 480  
agtcgggctt ggcttaccgg ggagcagtg tggacccag gacacagcct cccaccagcg 540  
cctccggggc tgccatctgg gcccacaga gcaaagagg cagcaagcag gccctgcgtt 600  
tggaaggctt atgaatggac acacaaatct tgcaaatacta tggagccagg ggcagggacg 660  
cacatattgg ttgttaaaaa tatgtcatca tgtatttgtt gagtgcctgc tctatcaggt 720  
gaggaagctg gacacaaata ataacaaaag attaagtcac cgttcacact taccttggaa 780  
gagctattac aaaacttcta acgcaaagc cttattcaga ataaggacat tttaaaaaca 840  
gtacttgatg gagtgatgca agcttgcagt cccagcagta tagtcaggag actgaggctg 900  
gaggatcaga gggctggagc ccagggttca aggccagcct aagcaacata gcaagacccc 960  
atctcaaaaa taagtaaata ataaataaaa ataaaaagag cacattatct tttgatttaa 1020  
atthttattta tatcaaaatg acataaattt ttgaacttta ttttttaatt ttaaaatttt 1080  
taattattat ggatacataa tagttgtaag actttttgtt ttttaattaa agttttctaa 1140  
ggctgggagc agtagctcat gtctgtagtc ccagcacttt gggaggctga ggcgaaagaa 1200  
gcacttgagc ccaggaattt gagaccagcc tgggcaacat agcaagaccc catctctaca 1260  
aaaaaattta aaaatttagc aagtgtggtg gcacgcacct gtggtcccag ctacaaggga 1320  
cgctgaagtg agaggatcac ttgagcctgg aaggtagagg ctgcagtgag ctctgatcat 1380  
gacaccgtac tccagcctgg gtgacagagt gagaccctgt ctccaaaaaa aaaaaaaaaa 1440  
aa 1442

<210> 324  
<211> 2701  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (1)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (9)  
<223> n equals a,t,g, or c

<220>



## 211

&lt;221&gt; misc feature

&lt;222&gt; (17)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2699)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 324

```

ncattcatnt tttcaangct cgtgatctca cggccccggct gccggccccc gctctgccct 60
gcagcataat aaaatggcta atcagggtgaa tggtaatgcg gtacagttaa aagaagagga 120
agaaccaatg gatacttcca gtgtaactca cacagaacac tacaagacac tgatagagggc 180
aggcctccca cagaagggtgg cagaaaagact tgatgaaata tttcagacag gattggtagc 240
ttatgtcgat cttgatgaaa gagcaattga tgctctcagg gaatttaatg aagaaggagc 300
tctgtctgta ctacagcagt tcaaggaaaag tgacttatca catgttcaga acaaaagtgc 360
atTTTTatgt ggagttatga agacctacag gcagagagag aaacagggga gcaagggtgca 420
agagtccaca aagggacctg atgaagcgaa gatcaaggcc ttgcttgaga gaactgggta 480
tactctggat gtaaccacag gacagaggaa gtatggtggt cctccaccag acagtgtgta 540
ctctggcgtg caacctggaa ttggaacgga ggtatttgta ggcaaaatac caagggattt 600
atatgaggat gagttggtgc ccctttttga gaaggccgga cccatttggt atctacgtct 660
tatgatggat ccaactgtccg gtcagaatag agggtagtca tttatcacct tctgtggaaa 720
ggaagctgca caggaagccg tgaaactgtg tgacagctat gaaattcgcc ctggtaaaca 780
ccttgagtg tgcatTTctg tggcaacaa cagactTTTT gttggatcca ttccgargaa 840
taagactaaa gaaaacattt tggagaatt cagtaaagtc acagagggtt tgggtggacgt 900
tattctctat catcaaccg atgacaaaaa gaagaatcgg gggttctgct tccttgaata 960
tgaggatcac aagtcagcag cacaagccag acgccggctg atgagtggaa aagtaaaagt 1020
gtggggaaat gtagttacag ttgaatgggc tgacctgtg gaagaaccag atccagaagt 1080
catggctaag gtaaaagttt tgtttgtgag aaacttggct actacggtga cagaagaaat 1140
attgaaaaag tcatTTtctg aatttggaag actcgaaaga gtaaagaagt tgaaagtgga 1200
kgccgctcmt kagaactagt ggatcccccg ggctggcagg attwcggcac gagaatgaat 1260
ggcaaaagaaa tagaagggga agaaattgaa atagtcttag ccaagccacc agacaagaaa 1320
aggaaaagagc gccaaagctgc tagacaggcc tccagaagca ctgcttatga agattattac 1380
taccaccctc ctccctcgcat gccacctcca attagagggtc ggggtcgtgg tggggggaga 1440
ggtggatatg gctaccctcc agattactac ggctatgaag attactatga tgattactat 1500
ggttatgatt atcacgacta tcgtggaggc tatgaagatc cctactacgg ctatgatgat 1560
ggctatgcag taagaggaag aggaggagga aggggagggc gaggtgctcc accaccacca 1620
agggggaggg gagcaccacc tccaagaggt agagctggct attcacagag gggggcacct 1680
ttgggaccac caagaggctc taggggtggc agaggggggc ctgctcaaca gcagagaggc 1740
cgtggttccc gtggatctcg gggcaatcgt gggggcaatg taggaggcaa gagaaaggca 1800
gatgggtaca accagcctga ttccaagcgt cgtcagacca acaaccaaca gaactggggt 1860
tcccaaccga tcgctcagca gccgcttcag caagggtggtg actattctgg taactatggt 1920
tacaataatg acaaccagga atTTtatcag gatacttatg ggcaacagtg gaagtagaca 1980
agtaagggct tgaaaatgat actggcaaga tacgattggc tctagatcta cattcttcaa 2040
aaaaaaaaa ttggcttaac tgtttcatct ttaagtagca ttttgctsec atttgtattg 2100
ggctgaagaa atcactattg tgtatatact caagtctttt tatttttccct cttttcataa 2160
atgctcttgg acattatttg gcttgcagag ttcccttatt ctggggatta caatgctttt 2220
atcgtttcag gcttcatttt agcttcaaaa caagctgggc acactgttaa atcatgattt 2280
tgcagaacct ttggTTTTgg acagtttcat ttttttggat ttgggataga ttacatagga 2340
gtatggagta tgctgtaaat aaaaatacaa gctagtgcct tgtcttagta gttttaagaa 2400
attaaagcaa acaaatttaa gttttcttgt attgaaaata acctatgatt gtatgttttg 2460

```

## 212

```

cattcctaga agtaggttaa ctgtgttttt aaattgttat aacttcacac ctttttgaaa 2520
tctgccctac aaaatttgtt tggcttaaac gtcaaaagcc gtgacaattt gttctttgat 2580
gtgattgtat ttccaatttc ttgttcattg aagatttcaa taaaactaaa aaatctattc 2640
aaaaaaaaaa aaaaaaaatg accctcgaga aaaaaaanaa aaaaaaanaa aaaaaaanaa 2700
a                                                                 2701

```

&lt;210&gt; 325

&lt;211&gt; 1070

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (9)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 325

```

gtgaaaggng cttttgctat acagaccttt agaacagcaa catggagtca ttctgatcg 60
ggatgcagaa ttttgtcttt ttgacctgtg tgtaaatgtg agagaaaact tctcagttcc 120
agttggcctt cgaggcacca tcataggaat aaaaggagct aatagagaag cccgatgtact 180
atttgaagta ttatttgatk wagaatttcc tggagggtta acaataagat gctcacctgg 240
tagaggttat cgactgccaa caagtgcctt ggtgaacctt tctcatggga gtcgctctga 300
aactggaaat cagaagttga cagccatcgt aaaaccacaa ccagctgtac atcaacatag 360
ytcaagttca tcagtttcct ctgggcattt gggarccctc aaccattccc ctcaatcact 420
ttttgttcct actcaagtac ctactaaaga tgatgatgaa ttctgcaaca tttggcagtc 480
cttacaggga tctggaaaga tgcaatactt cgagccaact atacaagaga aggggtgcagt 540
tctacctcaa gaaataagcc aagtaaatca acatcataaa tctggcttta atgacaacag 600
tgttaaatat cagcaaagaa aacatgacct tcacagaaaa tttaaagaag agtgtaagag 660
tcctaaagct gagtggttgt cccaaaaaat gtccaataag cagcctaact ctggaattga 720
gaacttttta gcatctttga atatctccaa agaaaatgaa rtacagtcac ctcacatgg 780
ggagcctcca agtgaagagc atttgtcacc acagtcattt gccatgaagg gaacacggat 840
gcttaaagaa attctaaaaa ttgatggctc taacactgtg gaccataaga atgaaatcaa 900
acagattgct aatgaaatcc ctgtttcctc taacagaaga gatgaatatg gattaccctc 960
tcagcctaaa caaaataaga aattagcacc ttatatgaac aagcctcaca gtgctaata 1020
gtaccataat gttcagtcta tggacaatat gtgttggcct gccccagcc 1070

```

&lt;210&gt; 326

&lt;211&gt; 1729

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (125)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 326

```

cacagacgct actctgtagc atctcaggtt ccctctggct gcactctgga ggaccacact 60
cgttttcttt ttggctgcca gagggccccg catccaccgc tgagctggga gaaagatggc 120
ggcancgtgc gacaggattt ggcccagctc atgaattcga gcggtctctc taaagatctg 180
gctggcaagt atcgtcagat cctggaaaaa gccattcagt tatctggagc agaacaacta 240

```

## 213

```

gaagctttga aagcttttgt ggaagcaatg gtaaatgaga atgtcagtct cgtgatctcg 300
cggcagttgc tgactgattt ttgcacacat cttcctaact tgcctgatag cacagccaaa 360
gaaatctatc acttcacctt ggaaaagatc cagcctagag tcatttcatt tgaggagcag 420
gttgcttcca taagacagca tcttgcatct atatatgaga aagaagaaga ttggagaaat 480
gcagcccaag tgttggtggg aattcctttg gaaacaggac aaaaacagta caatgtagat 540
tataaactgg agacttactt gaagattgct aggctatatc tggaggatga tgatccagtc 600
caggcagagg cttacataaa tcgagcatcg ttgcttcaga atgaatcaac caatgaacaa 660
ttacagatac attataaggt atgctatgca cgtgttcttg attatagaag aaaattcatt 720
gaagctgcac aaaggtacaa tgagctctct tacaagacaa tagtccacga aagtgaaga 780
ctagaggcct taaaacatgc tttgcactgt acgatcttag catcagcagg gcagcagcgt 840
tctcggatgc tagctactct ttttaaggat gaaaggtgcc agcaacttgc tgcctatggg 900
atcctagaga aaatgtatct agataggatc atcagaggaa atcaacttca agaatttgct 960
gccatgctga tgcctcacca aaaagcaact acagctgatg gttccagcat cttggacaga 1020
gctgttattg aacacaattt gttgtctgca agcaaattat ataataata taccttcgaa 1080
gaacttgtag ctctttttaga gatccctgca gctaaggcgg aaaagatagc atctcaaatg 1140
ataaccgaag acgtatgaat ggatttattg accagattga tggaatagtt ctttttgaag 1200
cacgagaagc cctgccaacg tgggataagc agatccaatc actttgttgc caagtgaata 1260
accttttgga gaaaattagt caaacagcac cagaatggac agcacaagcc atggaagccc 1320
agatggctca gtgaatcctt gcagaacttc tgtgcacatg acatcttttt ccatgttgtg 1380
cagatcagtt tcactatctc caaagcattt gcatcatgac cttatacatt tcaatccctt 1440
ttatgctgga ttccgtttta agaagacatt attagagcag gaagtacaag cttttaaaat 1500
atgtagttcc catatatttc agggctctctg tgtattaagc taactcagat gttttgaaag 1560
ctttttcttt aaacagaggt gaaatatctg tggctaaaaa gtttgagatt tgtgataact 1620
ttgtagtcat gtaaaactta agtgcttcat gcctctccaa atgtggttat tctaataaat 1680
ggagaaatga gccaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1729

```

&lt;210&gt; 327

&lt;211&gt; 686

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 327

```

ggcacgagca tgagccactg caccagccg atactactat atccccattt tacagatgag 60
cacatgggca aattgagggg aaggcactga cccatgatca tacagctgag aagtggcaaa 120
ggcaggattt gaacctagaa cctctggctc cacacactag taatctaaac cactctccct 180
acaatacaac atacgtggta aagatgtgtg gtgggcacgc aatcaacgta ggtcccttca 240
cagttgctgg gagaggcagg aatttgcagt tctctcgcgt tctctctctc cgctgccac 300
ctgtcctggg tcattcctgc agcctgccct gccctgcctg gtctcaccct ccctctgcca 360
acagaagtct gggcaggggt ttatgggctc tgataaggcc ctggcagggc cgaagttcat 420
gagcacttcc tctttgcagg agggcgtagg ggaggggacc caggtgattt gggctcctggc 480
tggtcaccag ggaagctggc aagggaaggg agactagggt gcgctctagg agaagccgac 540
agcctgagag tcccagaaga ggagccctgt ggaccctccc ctgccagcca ctcccttacc 600
ctgggtataa gagccaccac cgcctgccat ccgccaccat ctccactcc tgcagctctt 660
ctcacaggac cagccactag cgcagc 686

```

&lt;210&gt; 328

&lt;211&gt; 1241

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 328

214

```

agacgagcgt ggcgggccgcg gctgctcggg gccgcgctgg ttgcccattg acagcggcgt 60
ctgcagctcg cttcaagatg gccgcttget cgcattcatt ttctgctgaa cgacttttaa 120
ctttcattgt cttttccgcc cgcttcgate gcctcgsgcc ggctgctctt tccgggattt 180
tttatcaagc agaaatgcat cgaacaacga gaatcaagat cactgagcta aatccccacc 240
tgatgtgtgt gctttgtgga ggggtacttca ttgatgccac aaccataata gaatgtctac 300
attccttctg taaaacgtgt attgttcgtt acctggagac cagcaagtat tgctctatct 360
gtgatgtcca agttcacaag accagaccac tactgaatat aaggtcagat aaaactctcc 420
aagatattgt atacaaatta gttccagggc ttttcaaaaa tgaaatgaag agaagaagg 480
atthttatgc agctcatcct tctgctgatg ctgccaatgg ctctaataga gatagaggag 540
aggttgcaga tgaagataag agaattataa ctgatgatga gataataagc ttatccattg 600
aattctttga ccagaacaga ttggatcgga aagtaaaca agacaaagag aaatctaagg 660
aggagtgtaa tgataaaaga tacttacgat gccagcagc aatgactgtg atgcacttaa 720
gaaagtttct cagaagtaaa atggacatac ctaatacttt ccagattgat gtcagtgtat 780
aggaggaacc tttaaaggat tattatacac taatggatat tgcctacatt tatacctgga 840
gaaggaatgg tccacttcca ttgaaataca gagttcgacc tacttgtaaa agaataaga 900
tcagtcacca gagagatgga ctgacaaatg ctggagaact ggaaagtgc tctgggagt 960
acaaggccaa cagcccagca ggaggtattc cctccacctc ttcttgtttg cctagcccca 1020
gtactccagt gcagtctcct catccacagt ttcttcacat ttccagtact atgaatggaa 1080
ccagcaacag ccccgcggt aaccaccaat cttcttttgc caatagacct cgaaaatcat 1140
cagtaaattg gtcacagca acttcttctg gttgatacct gagactgtta aggaaaaaaa 1200
aaaaaaaaa accccggccg ctcccacttc agattggtaa c 1241

```

&lt;210&gt; 329

&lt;211&gt; 1652

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 329

```

tctgactgga ctttctatta gctcaactcc accagctgtc agtagtggtc tcagtacagg- 60
tgtaccaaca gtaccgttat tgccaccaca agtaaacag tccctcactt ctgtgccacc 120
aatgaatcca gctactacat taccaggtct gatgccttta ccagcaggac tgcccaacct 180
ccccaacctc aacctcaacc tcccagcacc acacatcatg ccagggggtg gcttaccaga 240
acttgtaaac ccaggtctgc cactcttcc ttccatgcct ccccgaaact tacctggcat 300
tgcacctctc cccctgccat ccgagttcct cccgtcattc cccctgggtc cagagagctc 360
ttctgcagca agctcaggag agctgctgtc ttccctcccg cccaccagca acgcacctc 420
tgacctgtcc acaactactg caaaggcaga cgctgcctcc tcaactactg tggatgtgac 480
gccccccact gccaaggccc ccaccaccgt tgaggacaga gtcggcgact ccacccagt 540
cagcgagaag cctgtttctg cggtgtgga tgccaatgct tctgagtcac cttaactttg 600
aaccattctt tggaattggc gtggtatatt taaccacggg agcgtgtctg gaaacgcaa 660
ctatcattaa tttcatacta gtttgatccg tatctgtagg catcctgtaa ataattccaa 720
ggggaaaact aaacgaggac gtgggttgta tctgcccagg ttgagtgggg ctcacacgct 780
agggtgagat gtcagaaagc gcttgatatt taaacaacca aaaagaattg taagggtggc 840
ttgctgccag gcttgactg ccgttcctgg ggggtgtgcat cttcgggaaa ggtggtggcg 900
gggcgtccac taggtttcct gtcccctgct gctccttccg taagaaaatg aaatattcta 960
tgccataata tcacacgcaa catthcttgt actttgtaag tcgtttgcca gaatgcagac 1020
cacctoacta aactgtaaag ggtaaagaga tttttacttt tgggtctccgt gagtcgcac 1080
tctactaagg tttacacagg aattccacct gaagacttgt gttaaagttc tacagcgcgc 1140
actgttaact gaacgtcttt ttcttcagcc tatacgcgga tcttgtttt gagctctcag 1200
aatcactcag acaacatttt gtaactgtg ctgttgcttt ctacatacac cttataaagt 1260
gacatttcaa aagaaataag gtgccacagt tttaaaccag aagggtggcac tctgtggctc 1320
ctttagtagt tatagctata ctgggaaagc atagatacag caataaagta cagtaatttt 1380

```

## 215

```

actttttttc ttgtgttaca tctaaattac aacccttaat tgccacgtgt gcacttacta 1440
ctctccagta tgtcttatta ctctccagta tgtcacgcat ctttaacttt tcacgtccta 1500
tgtttgcttt ctcccatttt taagagatgg taagttaact ggaattgatt tactgaatga 1560
aattaaatgc agatatccct gtttttgaaa taaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1620
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 1652

```

&lt;210&gt; 330

&lt;211&gt; 1916

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1895)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1902)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 330

```

gccacggcac gcagccagca agttgttttt aaatgttaat atagaaaaca gtgaaggatt 60
agctgaaaat atatgagcag gtgacattga ggtttactga aatagccaat ttgactgggtg 120
cttagactat tgtgcagtaa acctaaaagg tagtggagaa ttgcttcctg cttagcaggaa 180
gccttcacatc tcttgagtac ccaaaccagg cttcaggtgt cctttgagga tagccagggtt 240
tgaaatTTTT agtttctcag gaagagctct tctatgtggc aggggctgat agggcaaaat 300
aaaatgacaa tttctttatt gctacagagt atcctctata agttattaaa cgagtgtaat 360
ggtataatgc ccttccatca cacaacagga caccacccca gttttgtttt ctgggtttct 420
tccccctttg taggaatcag ataccttttg tagaaaaaaa tggcttatgc cacgtaaagg 480
tgaatTTTTa gaaaccacct tctaggcggt tttggaaccc ttactgaaat cctccccctt 540
gttacagatg gcgtagaagt cacaagtctg ttaattggac tgttgcttct ttgcctgttc 600
ctgctttctc tttctgtctg gatagtcagg aaaagattta atgtttaata tttaaacaaa 660
atatttaaatg tctatacagt aaaattattc aaacttcaaa ccagtattga aagcagttgg 720
aaaccagcta atagttttctt aatctcagat ttcgagatga atgtaaactg tattcttttg 780
aaatgtgcaa gtgtttgatt catgccatth gataaacttc tgccttgtag tcattgtttg 840
atgggaccaa cttgtaaagt atgagcctta aataaatctc catgctgaaa aatgtgttct 900
aatgcaacac aaaaacatga agtgactgcc cagaggtaga gttagtgttt aggtggaaag 960
ggagatgaca gctttccaaa gaaggacctt aaacacacca agattgtctt ctacaggaaat 1020
tgctgggcag gtctccgact aaaggctctt tgatgaaaag gaagaaacaa gcccccaaca 1080
caaggctctg atactactgg taaatgtagg agagaattaa gaatctgtta attaaaatcc 1140
aaacagagct tatttcagta gtcaagttac ctgacatgat aattatttct gcaggataat 1200
tgatgtttta tgttcttttt tggactttat cttcttgcaa aaatttctac aaaaattgtt 1260
ttcttcaccc ttgtgggtgct tattcatctg agcctgtctc acagtcccaa tgcctctgct 1320
ttttgtttta cttttgtagc ataaggtttt tgcttttgct ttgccttaag agttccctag 1380
ggagttacca gggcttttct ttttggtgtag cttttgcagc atggatcaaa cattggctta 1440
ctgtgctaag gtgtgaagag aaaaaattct ctaaagcagg tgagctttta tgaacaaatg 1500
tgtattttat ctgagtttga gtaggggtgc ttgtggattt tgttttttgg gttttttttt 1560
tttttttgta attatatgaa gaaagtccag ttctcataaa tattgatcac ttaaaaaact 1620
tactctttct tgaaaaggta cacatgtaaa atttaggaaa ataactaaag taggggctgg 1680
aaccataaga agaatgttta tcagcacggt catttattat tttggatttg gaacttggct 1740

```

## 216

```

ttgtttttca atagtgacaa gaatgggttca gttctaggaa tgttctggaa gatgctgtta 1800
atattacttt aaaatgagaa tctgggtgta ctgtatttta tcgttttcaa taaaacttct 1860
taagtgtttt ggaaaaaaaa aaaaaaaaaa aatnctgcg gnccgcaagg gaattc 1916

```

```

<210> 331
<211> 1658
<212> DNA
<213> Homo sapiens

```

```

<400> 331
gctcgtgccg attcggcacg agatggagcg agcggtagcc cagtgtctga gtggttgccg 60
ggctctccatg gagaagcggc tcgccagtgt ccagagctgc tgagctctcg ccgcccgaga 120
ccccgcggcg cggccgcagg gccatgctag ccttgccgct ggcgcgcggc tcgtgggggg 180
ccctgcgcgg cgccgcttgg gctccgggaa cgcggccgag taagcgascg cctgctgggc 240
cctgctgccg ccgctgccct gctgcttggg ctgcctggcc gaacgctgga ggctgcgtcc 300
ggccgctctt ggcttgccgc tgcccgggat cgkccagcgg aaccactgtt cgggcgcggg 360
gaaggcggct ccagggccag cgggyaykcg ggcgcgcgtg ccgaagcccc gggcgkccag 420
tgggggcccg cgagcaccac cagcctgtat gaaaacccat ggacaatccc gaatatgttg 480
tcaatgacga gaattggctt ggccccagtt ctgggctatt tgattattga agaagatttt 540
aatattgcac taggagtttt tgcttttagc ggactaacag atttgttgga tggatttatt 600
gctcgaaact gggccaatca aagatcagct ttgggaagtg ctcttgatcc acttgctgat 660
aaaatactta tcagtatctt atatgttagc ttgacctatg cagatcttat tccagttcca 720
cttacttaca tgatcatttc gagagatgta atgttgattg ctgctgtttt ttatgtcaga 780
taccgaactc ttccaacacc acgaacactt gccaaagtatt tcaatccttg ctatgccact 840
gctaggttaa aaccaacatt catcagcaag gtgaatacag cagtccagtt aatcttggtg 900
gcagcttctt tggcagctcc agttttcaac tatgctgaca gcatttatct tcagatacta 960
tggtgtttta cagctttcac cacagctgca tcagcttata gttactatca ttatggcccg 1020
aagactgttc aggtgataaa agactgatga aagtcatccc tcaactgttag taaggaagca 1080
gtatacatca atgggaacag ggcccatgga aatgtacagg agtttcccta ttttggtgtt 1140
cagcttgaaa aaggacttgt cagaatcaac tgtgtcatca aaatttaagt aatgtgcatt 1200
gaaaataagg ttgatcatgg gaatatgcag aatttccaat gtatttttaa atacaaataa 1260
aattgttaatt tagaattttt aaatcttagg tttcttgatt aatttataag agatcaatta 1320
ttgtcagtct tttttgtatg ttttttaaaa acatagtcca gagcatgggc agaattgaca 1380
cctctctttt aagtgaattt tggattgctc acaaagcact aggaaatgtc atgggggttc 1440
aatatatatc cyacacaact gggcaataca tttttgtttg attttttaggt ctgtgtatca 1500
attaacagtt catgtaatta atacckgatc atttgggata atgaaagtga agttagttgt 1560
agatgaagta aagttataaa agagattaaa aatgatcagg tattaattac atgaactgtt 1620
aatgaatcca ggttccaata tcaacaaca ttgctatg 1658

```

```

<210> 332
<211> 1102
<212> DNA
<213> Homo sapiens

```

```

<400> 332
tttgcacgta cgggtccggaa tcccgggtcg acccacgcgt ccgggaattc atgtggaggt 60
cagagtggaa gcagggtgta gaggggtccag cagaaggaaa catggctgcc aaagtgtttg 120
agtccattgg caagtttggc ctggccttag ctgttgacagg aggcgtgggtg aactctgcct 180
tatataatgt ggatgctggg cacagagctg tcatctttga ccgattccgt ggagtgcagg 240
acattgtggg aggggaaggg actcattttc tcatcccggt ggtacagaaa ccaattatct 300
ttgactgccg ttctcgacca cgtaatgtgc cagtcatcac tggtagcaaa gatttacaga 360

```

## 217

```

atgtcaacat cacactgcgc atcctcttcc ggctgtgcg cagccagctt cctcgcattct 420
tcaccagcat cggagaggac tatgatgagc gtgtgctgcc gtccatcaca actgagatcc 480
tcaagtcaagt ggtggctcgc tttgatgctg gagaactaat caccagaga gagctggtct 540
ccaggcaggt gagcgacgac cttacagagc gagccgccac ctttgggctc atcctggatg 600
acgtgtcctt gacacatctg accttcggga aggagttcac agaagcgggtg gaagccaaac 660
aggtggctca gcaggaagca gagagggcca gatttgtggt ggaaaaggct gagcaacaga 720
aaaaggcggc catcatctct gctgagggcg actccaaggc agctgagctg attgccaaact 780
cactggccac tgcaggggat ggcctgatcg agctgcgcaa gctggaagct gcagaggaca 840
tcgcgtacca gctctcacgc tctcggaaca tcacctacct gccagcgggg cagtccgtgc 900
tcctccagct gccccagtga gggcccaccc tgctgcacc tccgcgggct gactggccac 960
agccccgatg attcttaaca cagccttcct tctgtcccca cccagaaat cactgtgaaa 1020
tttcatgatt ggcttaaagt gaaggaaata aaggtaaat cacttcagaa aaaaaaaaaa 1080
aaaaaaaaacc ccggggggggg gc 1102

```

<210> 333

<211> 4201

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4077)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4161)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4186)

<223> n equals a,t,g, or c

<400> 333

```

gcggacgcgt gggcggacgc gtgggtscgg acgcgtgggc tcgcggcgcc gcctcctgct 60
cctcccgcgt ctgctgccgc tgccgccctg agtcactgcc tgcgcagctc cgcccgccctg 120
gtcccccata ctagtcccg atatttggag ttcttacaac atggcagaca ttgacaacaa 180
agaacagtct gaacttgatc aagatttgga tgatgttgaa gaagtagaag aagaggaaac 240
tggtgaagaa aaaaaactca aagcacgtca gctaactgtt cagatgatgc aaaatcctca 300
gattcttgca gcccttcaag aaagacttga tggctctgta gaaacaccaa caggatacat 360
tgaaagcctg cctagggtag ttaaaagacg agtgaatgct ctcaaaaacc tgcaagttaa 420
atgtgcacag atagaagcca aattctatga ggaagttcay gatcttgaaa ggaagtatgc 480
tgttctctat cagcctctat ttgataagcg atttgaaatt attaatgcaa tttatgaacc 540
tacggaagaa gaatgtgaat ggaaaccaga tgaagaagat gagatttcgg aggaattgaa 600
agaaaaggcc aagattgaag atgagaaaaa ggatgaagaa aaagaagacc ccaaaggaat 660
tcctgaattt tggttaactg tttttaagaa tgttgacttg ctcaagtata tggttcagga 720
acacgatgaa cctattctga agcacttgaa agatattaaa gtgaagttct cagatgctgg 780
ccagcctatg agttttgtct tagaatttca ctttgaaccc aatgaatatt ttacaaatga 840
agtgtcgaca aagacatata ggatgaggtc agaaccagat gattctgatc ccttttcttt 900
tgatggacca gaaattatgg gttgtacagg gtgccagata gattggaaaa aaggaaagaa 960

```

```

tgtcactttg aaaactatta agaagaagca gaaacacaag ggacgtggga cagttcgtac 1020
tgtgactaaa acagtttcca atgactcttt ctttaacttt ttgccccctc ctgaagttcc 1080
tgagagtggg gatctggatg atgatgctga agctatcctt gctgcagact tcgaaattgg 1140
tcacttttta cgtgagcgta taatcccaag atcagtgtta tattttactg gagaagctat 1200
tgaagatgat gatgatgatt atgatgaaga aggtgaagaa gcggatgagg gttatcagct 1260
ctttgaagaa gtcaaaagct gcagtaaact tttccaacgt tggctgcagt aactattttc 1320
aataaaagct gtctggatgt ctcaagttgt gttgggaaat ttttcatatt agaagctttc 1380
aaattaaatt gtattatcat caaagtctgt aatcatgaaa atctgttgat ccgtagagta 1440
acttgtatta aattttccct acattatgag ccagtttacc tactatgtac atacttcatg 1500
gatgcatttt gaactttaat ataggaaggg gaagaagaag gagatgagga aaatgatcca 1560
gactatgacc caaagaagga tcaaaaccca gcagagtga agcagcagtg aagcaggatg 1620
tatgtggcct tgaggataac ctgcactggg ctaccttctg cttccctgga aaggatgaat 1680
ttacatcatt tgacaagcct attttcaagt tatttgttgt ttgtttgctt gtttttgttt 1740
ttgcagctaa aataaaaatt tcaaatataa ttttagttct tacaagataa tgtcttaatt 1800
ttgtaccaat tcaggtagaa gtagaggcct accttgaatt aagggttata ctcaagttttt 1860
aacacattgt tgaagaaaag gtaccagctt tggaaagaga tgctatacta ataagcaagt 1920
gtaaaaaaaa aaaaaaaga ggaagaaaat cttaagtgtat tgatgctgtt ttctttttaa 1980
aaaaaaaaaa taaaattcat tttctttggg ttagagctag agagaaggcc ccaagcttct 2040
atggtttctt ctaattctta ttgcttaaag tatgagtatg tcacttacc gtgcttctgt 2100
ttactgtgta attaaaatgg gtagtactgt ttacctaaact acctcatgga tgtgttaagg 2160
catattgagt taaatctcat ataagtttc tcaatcttgt taaaagctca aaattttggg 2220
cctatttgta atgccagtgt gacactaagc attttgttca caccacgctt tgataactaa 2280
actggaaaac aaagggtgta agtacctctg ttctggatct gggcagtcag cactcttttt 2340
agatctttgt gtggctccta tttttataga agtggaggga tgcactattt cacaaggctc 2400
aagatttggt ttcatgatatt tttgatgact gtattgtaaa tactacaggg atagcactat 2460
agtattgtag tcatgagact taaagtggaa ataagactat ttttgacaaa agatgccatt 2520
aaatttcaga ctgtagagcc acatttaciaa tacctcaggc taattactgt taattttggg 2580
gttgaacttt tttttgacag tgagggtgga ttattggatt gtcattagag gaaggcttag 2640
atttctgtct cttataaaaa ttacattgaa ttgattttta gaggtaatga aaacttcctt 2700
tctgagaagt tagtgtaaag gtcttggaa gtgaacacat tgtttgtagt gctatccatt 2760
cctctctga gattttaact tactactgga aatccttaac caattataat agcttttttt 2820
ctttattttc aaaatgattt cctttgcttt gatttagacac tatgtgcttt ttttttttaa 2880
ccatagtcca tcgaaatgca gctttttctg aacttcaaag atagaatccc atttttaatg 2940
aactgaagta gcaaaatcat ctttttccatt ctttaggaaa tagctattgc caaagtgaag 3000
gtgtagataa tacctagtct tgttacataa aggggatgtg gtttgcagaa gaattttctt 3060
tataaaattg aagttttaag ggacgtcagt gtttatgcca tttttccagt tccaaaatga 3120
ttccattcca ttctagaaat ttgaagtatg taacctgaaa tccttaataa aatttggatt 3180
taattttata aaatgtactg gtgatatttt ggggtgtttt ttttaaatga atgtatatac 3240
tttttttttg aagagtggag agtagtgatg tctagaggga gctattttgt gctgaggcca 3300
ctatgttctg taaatatata attttaagag caacctcaca atccctgcta agtggagttt 3360
attatttgaa gactaaaatg gaattccata gttcctgata gggtatatatc tgrgttatta 3420
ttctgagtta tctacaaaca tttttgagat ttgtctttac actctgattg tagtttccag 3480
cagcccatgc aactgccaa gtaagtctca ttttttctg ttagaaatgg tgaaatatca 3540
tataatcact tataaagaaa actgatatga aaaaatttta gagttgtttg ctttatgggtc 3600
actcaagtag ggtaagtgtt ccacaaattc cacaagttga tagtttaaca tggatgtctg 3660
aaagccacat atataatttc ttaggattct taaattagta aatctagctt actgaagcag 3720
tattagcatc actatttttag attgcaaaaa taccttaatt gtgtggaact ggcttgtaga 3780
gtgggtactta agaaaaatgg gattctacct ctatttctgt tttagcacac ttaatcagga 3840
aaggatatat taactttcat aaaaatatat ttgttgtgtg aatagggttaa tgatatggta 3900
aggcccttaa aataactgaa ttaattgttt attgtaattg taggccattc ccattattaa 3960
aaataaagac aaaacttgaa gtaactgaaa atcttatcgt gctatgtaga aatattgaac 4020

```



## 219

```

taatattcaa atatttgaat gctttggttt cagggattgg tttaaaattg gagtcnnttt 4080
tttatggggt tagtcttaca aaaatttaag cctttatatt ttgacttta aatcaaaacc 4140
aaatgttatt ttaaattgtac nggaatwgga ttgggttaggt gcmggnagga rtgtwagggt 4200
c 4201

```

```

<210> 334
<211> 1239
<212> DNA
<213> Homo sapiens

```

```

<400> 334
aattcggcac gagctgaagc cctctctctg gatgacacag actttgaggt gtagtgaaat 60
ctttgctgtt caccagatgt aatgttttag ttccttaca acagggttgg gggggggaag 120
ggcgtgcaaa aactaacatt gaaattttga aacagcagca gagtgagtgg attttatttt 180
tcgttattgt tgggtggttta aaaaattccc cccatgtaat tattgtgaac accttgcttt 240
gtggtcactg taacattttg ggggtgggac agggaggaaa agtaacaata gtccacatgt 300
ccctggcatc tgttcagagc agtgtgcaga atgtaatgct cttttgtaag aaacgtttta 360
tgatttttaa aataaattta gtgaacctat ttttgggtgg catttttttt ttaagacagt 420
cattttaaaa tgggtggctga atttcccaac ccaccccaaa actaaacact aagtttaatt 480
ttcagtcctt ctgttggaca tataagtgc tctcttggtg gacataggca aaataacttg 540
gcaaaacttag ttctggtgat ttcttgatgg tttggaagtc tattgctggg aagaaattcc 600
atcatacata ttcatgctta taataagctg gggatttttt gtttgttttt gcaaatgctt 660
gccctactt ttcaacaatt ttctatgta gttgtgaaga actaagggtg ggagcagtac 720
tacaagttga gtaatggtat gagtatatac cagaattctg attggcagca agttttatta 780
atcagaataa cacttggtta tggaagtgc taatgctgaa aaaattgatt atttttatta 840
gataatttct cacctataga cttaaactgt caatttgctc tagtgtctta ttagttaaac 900
tttgtaaaat atatatatac ttgtttttcc attgtatgca aattgaaaga aaaagatgta 960
ccatttctct gttgtatgtt ggattatgta ggaaatgttt gtgtacaatt caaaaaaaaa 1020
aaagatgaaa aaagttcctg tggatgtttt gtgtagtatc ttggcatttg tattgatagt 1080
taaaattcac ttccaaataa ataaaacacc catgatgcta gatttgatgt gtgccratt 1140
tgaacaaggg ttgattgaca cctgtaaaat ttgttgaaac gttcctctta aaaggaaata 1200
tagtaatctt atgtaaaaaa aaaaaaaaaa aactcgaga 1239

```

```

<210> 335
<211> 1249
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (36)
<223> n equals a,t,g, or c

```

```

<400> 335
gcaaggagtc cccaatgcaa agacacagcg ctgcgnttgg cacctccttc ctcaactcct 60
caaaattgtt aagaaatgtt agtgggtggg ctgatctgac tgcagccatc ggtaaataaa 120
agtttttgat cctgttgaac ccgcctgaga cgggtgctgt aggggaaagc cttccgcacc 180
cacacaggaa ttctgctgag gtccccctc cttccggcca atggcagaag tgggggaaaa 240
tttttagaag aaaagcaaac atgtgagacc aatcattatc aaatactttt attttttggg 300
tgagtattta tctttttatt ttttattttt ttttttgaag gaatgtcttg gaatgcgcaa 360
gtctcccttt agagccgtct tttgcaggga gcgggaagtg acaagagctc agatctccct 420

```

## 220

```

cccgatctcc ctccccacct ccgaagtctc ctccgtggac cacaggtgga tctttgtgcg 480
aacaacttgc atttcggaag ccactgtccg tctttaaaca gaaagtcgaa ggagccacga 540
agcaagcggc egtcggggcg tccgyctgcc gtcccttcc atgttcctcc tcttccttcg 600
cttcagcttc ttctgttatg ttttgtcttg aattttattt agacttttcc agtgggtatt 660
tttctgtctt ccaacctcta ctgtaaactt tctgggccga gaacgagccg aacacagcgc 720
gacgcaggga ctaggacggc ccggtgaccg cgcggattca ggattgcggg gacgcagaaa 780
ggttaaggca cttttaaaaa ctatagcaag gctcctgttt atttattcta ctttctttcc 840
ctaataatca aaacaccgcg taggctcctc cgtttatcag tattaatggg gtaactttgt 900
tggcaatatt tgccgtgtag aatttttttt agatatccat tgtaaatttg aaacaaagac 960
cgatctgtgt aaaaacaaat ttccatatgt ttatatataa tatatatata atatgaagga 1020
ctaccctcct tttttttttt gtattttggc tgctagagtg cagcatttgt gacacgtatt 1080
tgaaatttga aatttccttc tgcactgtat aaaaggacca tttgaggatg ttttgccttt 1140
tgtgtatttt ttctataaaa aagaacaaaa ataaaaatgt ataacatttg tacatggcct 1200
ttaaaattgt atcaactaga aataaaattg catgagtatt ttaaaaaaa 1249

```

&lt;210&gt; 336

&lt;211&gt; 722

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (690)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (703)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (718)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 336

```

ggcttaaatg tgattcttga tactgtttta agtatttagg ttgcaattaa ctttggcaaa 60
gtcagtcgac ataagccctg tggatatggc cttatgtaca ctgtaatgca gacaggtgct 120
tttcatcatt catgtaacat tctcacacag ttgaggrrat tcatctcttc accaattcca 180
gattgtraat gtacywtctt aaacaactct tgaggtcacc aaacagtagt tatttgactg 240
ttaatagggtg ctacttgctt gcaaggattt ggagatgtaa acatgaagaa aatatagtta 300
ctgcctgcaa agaattaaca tccgtctagt gggagaaaca aacacacccc actcactaag 360
tatggaaaac tgattctggg aggaagcaga aatgtcccta gataacagca tgtattgcag 420
atacccaaat gtttattgtt ttctcagccc ttcaattttg cttttctctc tcaaagtcta 480
cagactcaat ttaaactctta cctttgattg ttgaaaaaag tcactaagat gtgaatacag 540
aatagacatt gagaggttat atatgtccaa aactcatctg tccagcagtc accgtcctct 600
tcagagtggg cacgttgggc agrtgggcac aggtgctggg gatgccctc ckgggcaaaa 660
cgccccattt gtggcacttc cagatactan ttatttactt ttnaagagag agacaggntc 720
ac

```

722

&lt;210&gt; 337

221

&lt;211&gt; 2210

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (40)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 337

```
cgcgctgca gggtcgacag tagtggatcc aaagaattcn gcacgaggct ggggtgcagca 60
accggagcgg cggcgcgctct ggaggaggct gcacgagcgg aagaccccag tccagatcca 120
ggactgagat cccagaacca tgaacctggc catcagcatc gctctcctgc taacagtctt 180
gcaggtctcc cgagggcaga aggtgaccag cctaacggcc tgcctagtgg accagagcct 240
tcgtctggac tgccgccatg agaataccag cagttcacc atccagtacg agttcagcct 300
gacccgtgag acaaagaagc acgtgctctt tggcactgtg ggggtgcctg agcacacata 360
ccgctcccca accaacttca ccagcaaata caacatgaag gtctcttact tatccgcctt 420
cactagcaag gacgagggca cctacacgtg tgcactccac cactctggcc attccccacc 480
catctcctcc cagaacgtca cagtgtcag agacaaactg gtcaagtgtg agggcatcag 540
cctgtgggct cagaacacct cgtggctgct gctgtcctg ctctccctct ccctcctcca 600
ggccacggat ttcattgtcc tgtgactggt gggggccatg gaggagacag gaagcctcaa 660
gttccagtgc agagatccta cttctctgag tcagctgacc ccctccccsc aatccctcaa 720
accttgagga gaagtgggga cccaccacct catcaggagt tccagtgtct catgcgatta 780
tctaccacag tccacgcggc cacctcacc tctccgcaca cctctggctg tctttttgta 840
ctttttgttc cagagctgct tctgtctggt ttatttaggt tttatccttc cttttctttg 900
agagtctgtg aagagggaag ccaggattgg ggacctgat gagagtgaga gcatgtgagg 960
ggtagtggga tgggtgggga ccagccactg gagggggcat ccttgcccat cgggaccaga 1020
aacctgggag agacttggat gaggagtggc tgggctgtgc ctgggcctag cacggacatg 1080
gtctgtcctg acagcactcc tcggcaggca tggtgtgtgc ctgaagacct cagatgtgag 1140
ggcaccacca agaatttgtg gcctaccttg tgaggagag aactgagcat ctccagcatt 1200
ctcagccaca accaaaaaaa aataaaaagg gcagccctcc ttaccactgt ggaagtccct 1260
cagaggcctt ggggcatgac ccagtgaaga tgcaggtttg accaggaaag cagcgctagt 1320
ggaggggttg agaaggaggt aaaggatgag ggttcatcat ccctccctgc ctaaggaagc 1380
taaaagcatg gccctgtctg ccctccctgc ctccacccac agtggagagg gctacaaagg 1440
aggacaagac cctctcagge tgtcccaagc tcccaagagc ttccagagct ctgaccacca 1500
gcctccaagt caggtggggt ggagtcccag agctgcacag ggtttggccc aagtttctaa 1560
gggaggcact tcctccctc gcccatcagt gccagccctt gctggctggt gcctgagccc 1620
ctcagacagc ccctgcccc gcaggcctgc cttctcaggg acttctgcgg ggctgaggc 1680
aagccatgga gtgagaccca ggagccggac acttctcagg aaatggcttt tcccaacccc 1740
cagccccac ccggtggttc ttctgttct gtgactgtgt atagtgccac cacagcttat 1800
ggcatctcat tgaggacaaa gaaaactgca caataaaacc aagcctctgg aatctgtcct 1860
cgtgtccacc tggccttcgc tcctccagca gtgcctgect gccmcgcttc gctggggtct 1920
ccacgggtga ggctggggaa cgccacctct tcctcttccc tgacttctcc ccaaccactt 1980
agtagcaacg ctaccccagg ggctaattgac tgcacactgg gcttcttttc agaattgacc 2040
taacgagaca catttgccca aataaacgaa catcccatgt ctgctgactc acctggctgg 2100
aacaacatgc ttactgccaa catgtgggcc gaaccacatg gccctggctt tggaatgcac 2160
aagtggcttt gcgtgaattt gcgctaagct atgcagttt aaaaaaaaaa 2210
```

&lt;210&gt; 338

&lt;211&gt; 741

&lt;212&gt; DNA

222

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (581)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (656)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (711)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (719)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (720)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (737)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 338

```

ttcagtatgt ggtgctaccc atggcgacag ggagttattg gataccttta tatatacact 60
actcccttca acaaactgcc tgggtctatag gatcttgctc aaggacctgt tccaggaaac 120
ctctagattt tcccccttgc ctagecctctg tgaaggcaga aatcactaat ggagtggttt 180
gccttaaata cctttgtacg tgtaacatcc tgcaatgtat atgatattta gtaggcattc 240
aataagtatt tgctgaataa gttaaaaaaa ttaatatgta tctgatgctg attaatcact 300
ctatataaaa tataaaatgt gtaaaaaaaa aatggtcact ggttttactg ttgaagcctg 360
tgttttatag atggaaaata tcacaagcaa attaaaatag aagagaatgc aacagggtttc 420
agttatgagt cacttttttcg cgaatacctt aatgagacag ttacagaagt ttggatagaa 480
gatccttata ttagacatac tcatcagggc attgatcaag tgcagcaaag tagaggcctg 540
caagaaatag aagagtcact caggagtcac gggagtgtg ntggaaggtc aatactcttc 600
ttcaatacat gaccgagaaa ttaggttcaa caatggatgg gtgattaaag attggnaagg 660
ggacttggtt attttaagga aacccccagg tagggatata atcttaatga ngtaaatgnn 720
tagcactggt ttttggnatc a                                     741

```

&lt;210&gt; 339

&lt;211&gt; 2045

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 339

```

cccgggtcga cccacgcgtc cggaaagatc caaaacaagt ggctgcggcc gtcgcccagg 60
agtcacgcga cgccagaatc tggccggggtt ctgagcttgt tccgcctccc tcccccgga 120
atggcgctat ccgggtcgac cccggccccg tgctgggagg aggatgagt cctggactac 180
tacgggatgc tgctgcttca ccgtatgttc gaggtggtgg gcgggcaact gaccgagtgc 240
gagctggagc tcctggcctt tctgctggat gaggtccttg gcgcccggg aggcttagcc 300
cgggcccga gcggcctaga gctcctgctg gagctggagc gccgcgggca gtgcgacgag 360
agcaacctgc ggctgctggg gcaactcctg cgcgtgctgg cccgccacga cctgctgccg 420
cacctggcgc gcaagcggcg ccggccagt tctccagaac gctatagcta tggcacctcc 480
agctcttcaa agaggacaga gggtagctgc cgtcgcgctc ggcagtcaag cagttctgca 540
aattctcagc agggtcagtg ggagacaggc tccccccaa ccaagcggca gcggcggagt 600
cggggccggc ccagtgggtg tgccagacgg cggcggagag gggccccagc gcacccccag 660
cagcagtcag agcccgcag accttcctct gaaggcaaag tgacctgtga catccggctc 720
cgggttcgag cagagtactg cgagcatggg ccagccttgg agcagggcgt ggcacccgg 780
cggccccagg cgctggcgcg gcagctggac gtgtttgggc aggccaccgc agtgctgcgc 840
tcaagggacc tgggctctgt ggtttgtgac atcaagttct cagagctctc ctatctggac 900
gccttctggg gcgactacct gagtggcgcc ctgctgcagg ccctgcgggg cgtgttcctg 960
actgaggccc tgccgagaggc tgtgggcccg gaggtgttc gcctgctggt cagtgtggat 1020
gaggctgact atgaggctgg ccggcgccgc ctgttgctga tggaggagga aggggggagg 1080
cgccgacag aggcctcctg atccaggact ggcaggattg atcccacct caagtctccg 1140
ggccaccttc tcctgggagg acgacctct ctaccctag aggactgtca ctctagcatc 1200
tttgaggact gcgacaggac cgggacagca gggcccttga cagccctcc cacaggatgt 1260
gggctctgag gcctaaacca ttccagctg agtttccttc ccagactcct cctaccccca 1320
ggtgtgcccc cttagcctcc ggaggcgggg gctgggcctg tatctcagaa gggaggggca 1380
cagctacaca ctcaccaaag gccccctgc acattgtatc tctgatcttg ggctgtctgc 1440
actgtcacag gtgcacacac tcgtcatgc tcacactgcc cctgctgaga tcttccctgg 1500
gcctctgccc tggcctgctt ccagcacac acttctttgg cctaagggct tctctctcag 1560
gacctctaatt ttgaccacaa ccaacctggg cttcagccac atcagtgggc actggagctg 1620
gggtgcacat ggggcctgct caccttgccc acacatctcc agccagccag ggccctgccc 1680
agcttcaatt tacagacctg actctcctca ccttcccccc tgctgtccag agctgaacat 1740
agacttgcac ttggatgtca cctggagtgt cacatgggag tgttatggca gcatcatacc 1800
aaggcctact gttgcacatg gggccaaaac cagtaaacag ccaccttctt ggaaagggaa 1860
tgcaaaggct ttgggggtga tggaaaagac ctttaacaaa tgataccaat taaactgccc 1920
tggaaggggc ataggtggga aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1980
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2040
aaaaa 2045

```

&lt;210&gt; 340

&lt;211&gt; 2074

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 340

```

cctatgga aaacccagca acgggcctt tttacggttc ctggcctttt gctggccttt 60
tgctcacatg ttctttcctg cgttatcccc tgattctgtg gataaccgta ttaccgcctt 120
tgagtgaagt gataccgctc gccgcagccg aacgaccgag cgcagcgagt cagtgaagca 180
ggaagcggaa gagcgcccaa tacgcaaac gcctctcccc gcgcgttggc cgattcatta 240
atgcagctgg cacgacaggt ttcccagctg gaaagcgggc agtgagcgca acgcaattaa 300
tgtgagttag ctactcatt aggcacccca ggctttacac tttatgcttc cggctcgat 360
gttgtgtgga attgtgagcg gataacaatt tcacacagga aacagctatg accatgatta 420

```

## 224

```

cgccaagctc gaaattaacc ctactaaag ggaacaaaag ctggagctcc accgcggtgg 480
cggccgctct agaactagt gatcccccg gctgcaggaa ttcggcacga gcatggttct 540
gcagacgacc aaggggctgc ggcttctctt tgatggcgat gccacctcc tcatgtccat 600
ccccagcccc ttccgtggac ggctctgtgg cctctgtggg aacttcaatg gcaactggag 660
tgacgacttt gtccctgcca atggctcagc agcgtccagt gtggagacct tcggggctgc 720
atggcgggtg cccggctcct ccaagggtcg tggcgagggc tgcgggcccc aaggctgccc 780
agtgtgcttg gcagaggaga ctgcacccta tgagagcaac gaggcctgcg ggcagctccg 840
gaacccccag ggcccttcg cgacctgcca ggcggtgctg agtccctctg agtacttccg 900
ccaatgcgta tacgacctgt gcgcgcaaaa gggtgacaaa gccttctgt gccgcagcct 960
ggcagcctac acggcggcct gtcaggcagc tggcgtggcc gtgaagccct ggaggacaga 1020
cagcttctgc ccgtccatt gccccgcca cagccactac tccatctgca ctgcacctg 1080
ccagggatcc tgtgcggtc tctccggcct caccggctgc accaccgct gttttgagg 1140
ctgtgagtgc gacgaccgt tctgtcttcc cagggtgtc tgcacccctg tccaagattg 1200
tggctgcacc cataatggcc gatacttgcc ggtaaacctc tccctgctga cctcagactg 1260
cagcgagcgc tgttctgtt cctcaagctc tggcctgaca tgccaggccg ctggctgccc 1320
accaggccgt gtatgtgagg tcaaggctga agcccggaa tgctgggcca cccgtggtct 1380
ctgtgtcctg tctgtgggtg ccaacctcac cacctttgat ggggcccggt gtgccaccac 1440
ctctcctggt gtctatgagc tctcttcccg ctgccaggga ctacagaata ccatcccctg 1500
gtaccgtgta gttgccgaag tccagatctg ccatggcaaa acggaggctg tgggccagg 1560
ccacatcttc ttccaggatg ggatggtgac gttgactcca aacaagggtg tgtgggtgaa 1620
tggctccga gtggatctcc cagctgagaa gttagcatct gtgtccgtga gtcgtacacc 1680
tgatggctcc ctgctagtcc gccagaaggc aggggtccag gtgtggcttg gagccaatgg 1740
gaaggtggct gtgattgtca gcaatgacca tgctgggaaa ctgtgtgggg cctgtggaaa 1800
ctttgacggg gaccagacca atgattggca tgactcccag gagaagccag cgatggagaa 1860
atggagagcg caggacttct ccccatgtta tggtgatca gtcaccacc aggaacgaag 1920
atttctgaa gaagacctgg tccctctgga ggttgcggtg gctgaaggat gcattcatgtg 1980
ctctaccct gctctaccgc ttttctgggt cacagaggcc aaatgtgaga gcattgaata 2040
aatacttaa gtaaaaaaa aaaaaaaaaa aaaa 2074

```

&lt;210&gt; 341

&lt;211&gt; 2867

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 341

```

ccacgcgtcc ggagaaatca caggagatg tacagcaatg gggccattta agagttctgt 60
gttcactctg attcttcacc ttctagaagg ggcctgagt aattcactca ttcagctgaa 120
caacaatggc tatgaaggca ttgtcgttgc aatcgacccc aatgtgccag aagatgaaac 180
actcattcaa caaataaagg acatggtgac ccaggcatct ctgtatctgt ttgaagctac 240
aggaaagcga ttttatttca aaaatgttgc cattttgatt cctgaaacat ggaagacaaa 300
ggctgactat gtgagaccaa aacttgagac ctacaaaaat gctgatgttc tggttgctga 360
gtctactcct ccaggtaatg atgaacccta cactgagcag atgggcaact gtggagagaa 420
gggtgaaagg atccacctca ctctgattt cattgcagga aaaaagttag ctgaatatgg 480
accacaaggt agggcatttg tccatgagtg ggctcatcta cgatggggag tatttgacga 540
gtacaataat gatgagaaat tctacttata caatggaaga atacaagcag taagatgttc 600
agcaggtatt actggtacaa atgtagtaaa gaagtgtcag ggaggcagct gttacaccaa 660
aagatgcaca ttcaataaag ttacaggact ctatgaaaaa ggatgtgagt ttgttctcca 720
atcccgccag acggagaagg cttctataat gtttgacaaa catgttgatt ctatagttga 780
attctgtaca gaacaaaacc acaacaaaga agctccaaac aagcaaaatc aaaaatgcaa 840
tctccgaagc acatgggaag tgatccgtga ttctgaggac ttaagaaaaa ccactcctat 900
gacaacacag ccaccaaata ccaccttctc attgctgcag attggacaaa gaattgtgtg 960

```

225

```

tttagtcctt gacaaatctg gaagcatggc gactggtaac cgctcaatc gactgaatca 1020
agcaggccag cttttcctgc tgcagacagt tgagctgggg tcttgggttg ggatgggtgac 1080
atttgacagt gctgcccag tacaagtga actcatacag ataaacagtg ggcatgaca 1140
gggacacact cgccaaaaga ttacctgcag cagcttcagg agggacgtcc atctgcagcg 1200
ggcttcgacg ggcatttact gtgattagga agaaatatcc aactgatgga tctgaaattg 1260
tgctgctgac ggatggggaa gacaacacta taagtgggtg ctttaacgag gtcaaacaaa 1320
gtgggtgccat catccacaca gtcgcttttg ggccctctgc agctcaagaa ctagaggagc 1380
tgtccaaaat gacaggaggt ttacagacat atgcttcaga tcaagttcag aacaatggcc 1440
tcattgatgc ttttggggcc ctttcatcag gaaatggagc tgtctctcag cgctccatcc 1500
agcttgagag taagggatta accctccaga acagccagt gatgaatggc acagtgatcg 1560
tggacagcac cgtgggaaag gacactttgt ttcttatcac ctggacaacg cagcctcccc 1620
aaatccttct ctgggatccc agtggacaga agcaaggtgg ctttgtagtg gacaaaaaca 1680
ccaaaatggc ctacctcaa atcccaggca ttgctaaggt tggcacttgg aaatacagtc 1740
tgcaagcaag ctacaaaacc ttgacctga ctgtcacgtc ccgtgcgtcc aatgtacctc 1800
tgctccaat tacagtgact tccaaaacga acaaggacac cagcaaattc cccagccctc 1860
tggtagttta tgcaaatatt cgccaaggag cctccccaat tctcagggcc agtgtcacag 1920
ccctgattga atcagtgaat ggaaaaacag ttaccttggg actactggat aatggagcag 1980
gtgctgatgc tactaaggat gacgggtgtc actcaaggta tttcacaact tatgacacga 2040
atggtagata cagtgtaaaa gtgcgggctc tgggaggagt taacgcagcc agacggagag 2100
tgatacccca gcagagtggg gactgtaca tacctggctg gattgagaat gatgaaatac 2160
aatggaatcc accaagacct gaaattaata aggatgatgt tcaacacaag caagtgtgtt 2220
tcagcagaac atcctcgagg ggctcatttg tggcttctga tgtcccaaat gctccatac 2280
ctgatctctt cccacctggc caaatcaccg acctgaaggc ggaaattcac gggggcagtc 2340
tcattaatct gacttgga gctcctgggg atgattatga ccatggaaca gctcacaagt 2400
atatcattcg aataagtaca agtattcttg atctcagaga caagttcaat gaatctcttc 2460
aagtgaatac tactgctctc atcccaaagg aagccaactc tgaggagtc tttttgttta 2520
aaccagaaac cattactttt gaaaatggca cagatctttt cattgctatt caggctgttg 2580
ataaggtcga tctgaaatca gaaatatcca acattgcacg agtatctttg tttattcctc 2640
cacagactcc gccagagaca cctagtcttg atgaaacgtc tgctccttgt cctaataatc 2700
atatcaacag caccattcct ggcatccaca ttttaaaaat tatgtggaag tggataggag 2760
aactgcagct gtcaatagcc tagggctgaa tttttgtcag ataaataaaa taaatcattc 2820
atcctttttt ttgattataa aaaaaaaaaa aaaaaaaaaa aaaaaaa 2867

```

&lt;210&gt; 342

&lt;211&gt; 2131

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 342

```

ggcacgagcg gaggaggagc gggcgccatg gcggttctac tggagaccac tttaggcgac 60
gtcgtcatcg acttgtacac cgaagaacgg ccgcgtgcct gcttgaattt cttgaaactg 120
tgcaaaataa aatattacaa ttattgcctt attcacaatg tacagaggga ttttatcata 180
caaactggcg atcctacagg gactggccgt ggaggagagt ctatcttttg ccaactgtat 240
ggtgatcaag caagcttttt tgaggcagaa aaagtcccaa gaattaagca caagaagaaa 300
ggcacagtgt ccatggtgaa taatggcagt gatcaacatg gatctcagtt tcttatcacc 360
acaggagaaa atctagatta tcttgatggg gtccatacgg tgtttgggtg ggtgacagaa 420
ggcatggaca taattaagaa aattaatgag accttgttg acaaggactt tgtaccatat 480
caggatatca ggataaatca tacggtgatt ttagatgac catttgatga ccctyctgat 540
ttattaatcc ctgatcgatc accagaacct acaagggaac aattagatag tggtcgaata 600
ggagcagatg aagaaattga tgatttcaaa ggaagatcag ctgaggaagt agaagaaata 660
aaggcagaaa aagaggctaa aactcaggct atacttttgg agatgggtgg agacctacct 720

```

226

```

gatgcagata ttaaactctc agaaaatgta ctgtttgtgt gtaaattgaa cccagtgacc 780
acagatgagg atctggaaat aatattctct agatttgggc caataagaag ttgtgaagtt 840
atccgagact ggaagacagg agagtccctc tgttacgctt ttattgaatt tgaaaaggaa 900
gaagattgtg agaaagcatt cttcaaaatg gacaatgtgc ttatagatga cagaagaata 960
catgtggatt ttagccagtc ggttgcaaag gttaaattgga arggaaaagg tgggaaatac 1020
accaagagtg atttcaagga gtatgaaaaa gaacaggata aaccacctaa tttggttctg 1080
aaagataaag taaagcccaa acaggatata aaatacgatc ttatattaga tgagcaggcc 1140
gaagactcaa aatcaagtca ctcacacaca agtaaaaaac acaagaagaa aacccatcac 1200
tgttctgaag agaaagaaga tgaggactac atgccaatca aaaatactaa tcaggatata 1260
tatagagaaa tggggtttgg tcactatgaa gaagaagaaa gctgttggga gaaacaaaag 1320
agtgaaaaga gagaccgaac tcagaaccga agtcgtagcc gatctcgaga gagggatggs 1380
cattatagta atagtcataa atcaaaatac caaacagatc tttatgaaag agaaaggagt 1440
aaaaagagag accgaagcag aagtccaaag aagtccaaag ataaagaaaa atctaagtat 1500
agatgaaaga tgaagaggca gaattgagag gctaacatat ttactcttgt ctaacttaag 1560
agtgccagga aagcagatgc ttagattttg tgtcaaagct tgttattttt ttcatactag 1620
gattatggtc tttagattaa tactgattat atagagcacg gaaagataaa gaattgaaca 1680
ttttctttgt atactttttt acactaattt tattgttata cataaatggg agtcttcatt 1740
tttgaagtct tacatttttc ctcttttttt aatgaagtat ttcatactac aaaaatacat 1800
aaacgtatat ataaagggat aataaatgta aatatctgtg tactcatcag ccagcttaag 1860
atacagatgt tgtcgacatt ttagaagttc cctaaggccc tctccctctc aaataattat 1920
ttggaatttt gtgtttgtca tttgtctatt atagttttac aacatacgta tgtatctgta 1980
agtgaaatgt taattttgta tgtttctgaa ttttatataa atggcaaat gtttacttct 2040
gtgactttct ttcattttta ttgctatata gtattatata aatatactac aacttattca 2100
tycttgatgg acaaatttgg gttaatgggt t

```

&lt;210&gt; 343

&lt;211&gt; 559

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (534)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (539)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (556)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (559)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 343



227

```

caaaaaataa ataaataaaa ataaaagagt atactcctgg catgcttttt atctgagaag 60
atgtaaaaca gggaaaagaa cttcaggccg ttctctttgt ggctgagttt cattctgcct 120
gcgtggtgac agcagccttg agctctctgg gaattcacat cctgagcagt gtgctaggag 180
gatgcgaggg atgctggtga ctctgctgtg agtttgagct gcttctgcca aaaaactcac 240
gctcaggact cacaccttgt ctatatattt agttacatay aataaagatt ttttaaaaaa 300
tcacagattc agtgtgtatg aaattttcta ctcttcacca attctgatga aattcaattc 360
ttcaggaggt tgagttttct ggaacaagcc acctctcttc ccttggagtg tcccatcact 420
tattctagca ccttttcatt ttgttcgaga tgtttgctga agcggagcgg tgctgtgggg 480
ggttacgcgc acctttcatc atcagtacaa tagcaggacc atagtgggtt agancaacnc 540
acagaggcaa agaaancgn                                     559

```

&lt;210&gt; 344

&lt;211&gt; 2623

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (547)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2623)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 344

```

tttttttttt taaacgtaaa tttgctcttt tttaatgata agcaattcag atatttgggc 60
aagtggcatg accatggatt atttcaactg ttttcttctt cgtagccctt gctctccagc 120
tattgacatc agtgtggagt cagtaattct tttcttagaa gctgaagtta tcattttacag 180
taaatttggt tttagttctt tgtcatcctt atttacctga agctccttca ggaaaattac 240
tctgagctca gaattagctt agataactta taaatagggt tataacaggg atcagaaagc 300
cactctaggg ctgacatgct tgacaggctc tgacgcagga ggtgggagtt cctggccctt 360
ctaaacacag atgtgactat taggagcaaa aggtaccaag ggccctattt cccactggcg 420
aggcttctta ttcagccctc actcttcttt ctgttcacgt ttcctcttca gttctcagtg 480
ccacatcatt tggcatcaga gwtgaaaagg atctagggct ggttktctc agaaccaaga 540
agctttnaaa accagyttgt ggtagccctt cttgagagca gctcagtctt ctcatgggtt 600
caytetgacc aatcccagga tgcatagggr cccaggcaaa gcaggcccta gtaagtcctt 660
tttttttttt tgaaagacag aggtggggcg ccatggstca tgcctgtaat cccagcactt 720
tgaggaggcca agatggacgg atcacctaag gtcaggagtt cgagaccagc ctggccaaca 780
tgggcaaacc tggctctctac taaagataca aaaattagcc ggggtggcac ggtgcagggc 840
ggtatggggw cgccatggct gagctgcagc agctccgggt gcaggaggcg gtggagtcca 900
tggtgaagag tctggaaaga gagaacatcc ggaagatgca gggctctcatg ttccggtgca 960
gcgccagctg ttgtgaggac agccaggcct ccatgaagca ggtgcaccag tgcctcgagc 1020
gctgccatgt gcctctggct caagcccagg ctttgggtcac cagtgaagctg gagaagtctc 1080
aggaccgctt ggcccgggtg accatgcatt gcaacgacaa agccaaagat tcaatagatg 1140
ctgggagtaa ggagcttcag gtgaagcagc agctggacag ttgtgtgacc aagtgtgtgg 1200
atgaccacat gcacctcatc ccaactatga ccaagaagat gaaggaggct ctcttatcaa 1260
ttggaaaata aaagtatttg ccagtggcca tcagggtgta gggcaagaat atatttttta 1320
taaggaattg ggaatttttag tcttttaagc aaagtttacg aatgaagaaa tgaaggatgg 1380
ccacaagcgt aaggcatatg tcacttgccct ctggacactg gttattttat gtttcagttc 1440

```

228

```

ctaaaaaatg aaatggaaaa aagtgggtgct aaatcgagtc agagatatatta caggagaggtt 1500
ttagagctta ttatttcctg tggccagtgc ttgtcctggc agtaaggcty tcccctgtaa 1560
caagccagag cctccaagg taccagactc ttcttactac acaggtaacta acaggctggc 1620
aggtagagtg tgggtggagtc tgaggagaga tattttctct ttgttgccaa catcctgttt 1680
acaaaaagtg tcaccccacc atcttccata agctgtgaaa caaaatcaat gaggtcacta 1740
acttagaagg gaaagaaagt tttctgggtc tttgttttct tgatttgagg taattttatac 1800
aagggcatac aagttgattt taagatgtgg aactgggagg tagactagtt tggataagaa 1860
ctttgaaatg ttccttggtg atccccattt ctgggtcatca agatgtggat gtacatttct 1920
taaaattatt acatgctgca tctttcagcc tggagactgt gcagaaacat gagagggtgat 1980
gacacactaa ttatgggaag cagaattact ggctgatggc ccctgagggt gtgtgtaaca 2040
aaatgacagg acaatcttgc agtaacactt tcccctgaa gagaaggggg ttttgattgt 2100
gatatact agtatctagg aatgaacagt aaaagaggag cagttggcta cttgattaca 2160
acagaataaa tgaagtactg gatttgggaa aacctggttt tattagaaca tatggaatga 2220
aagcctacac ctagcattgc ctacttagcc ccctgaatta acagagccca attgagacaa 2280
acccctggca acaggaaatt caagggagaa aaagtaagca acttgggcta ggatgagctg 2340
actcccttag agcaaaggag agacagcccc cattaccaa taccattttt gcctggggct 2400
tgtgcagctg gcagtgttcc tgccccagca tggcacctta ttgttttgat agcaacttcg 2460
ttgaattttc accaacttat tacttgaaat tataatatag cctgtccgtt tgetgtttcc 2520
aggctgtgat atattttcct agtggtttga ctttaaaaaa aaataaggtt taattttctc 2580
ccccaaaaaa aaaaaaaaaa aaaaaaaaaa aaataaaaaa atn 2623

```

&lt;210&gt; 345

&lt;211&gt; 1843

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1405)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 345

```

ggcacgaggt ggccttggtg caaacacaaa cgcgttctga tcttcccttc ctacatgaca 60
acagtgattg actacgtgaa gccctcggat ctcaagaagg acatgaacga gaccttcaag 120
gagaagtttc ctcacattaa gctgacactc agcaaaatta ggagtctgaa acgagagatg 180
cggaaacttg gcaggaggac tgtggccttg aggagccac ggtggccatg gcctcgtcta 240
ctttgaaaag ctgcacctca aggggaaact caacaaacag aaccggaagc tgtgtgcttg 300
ggcatgtgtg ctggttagcag ccagcaaaat ttggaagtga cctcaaaaaa cagagtcaa 360
gcatttaatt gacaaactgg aagagaagtt ccggtgaa acggcgagaac tgattgcctt 420
tgaattcccg gtgttagtg ccttggaatt cgccctccac ttgcccagac acgaagtcac 480
gccccactac agacggctgg tccagagttc ctgacactgg ccccaggagc agccaagggc 540
awtttcttct cagcttggtg gagcagcact tacttactac tggaaatgaa aaaaagtaga 600
actcagaata ccagactttt ctctctctcg acatagtttg gggagaagca gtactagaaa 660
ctttccaagg agtcttgggt gtgtagccaa gaggagccat gagctatgga ctctcaagc 720
acgggaagag gaggtgtgtg ctgagaacag agaggccctg ccctctgtcc actagcgaga 780
atccctagct gcccagccc agtctttctc cccggcattc aaaaactttg caagcgtggt 840
ccagggcctt ctccagatct gttccaactt ggagtgtgaa gggcttgagc atacggggga 900
agagagtctg cagaagttgg gggaaaactt ttaaaagata ccctcattgt gtcaaagagt 960
gtgccaatct atttttgtat cagcattgga agtgacttt cccctggggc gtgtgggtgt 1020
gtgaatgtgc aagtgtctga gagatactgc atcagcccta gaccccca gccagtcctg 1080
ccctttacag agcagccctt agcctggggc catgggtcag gctgacctc aacaattatt 1140

```

229

```

tctagatgat ttctggataa gaattgctct ctcggtacca gacagtttga catcctccac 1200
ccttagaaaa tgactgacat tgttttggtta ctgctcctac ccaccaagg gataaagaag 1260
gcgagttctg agtggttgat gagtcagtcg cgtggaagga cgtggagcgt ggcgctctgt 1320
aacttcctgc cgtctgccac ccgcccacgt gtatttaacc ctgcgacttt ctccactgtg 1380
gagatggctg gggcgggcgcc ccacnagtgt gtattcctgt cctctatggt agagtgcac 1440
agaagcacat ttactgtgct atctatatck ctatataaaa gtgttttata aaaaccaga 1500
ataggagcac gacgcatgat tgggtgttga ggcgtttgcc agctgggaca aactgcgttt 1560
ggagctgtgg ttaagctgac taaggaggcg gtggctcttt cttaacattc ccacgtgccc 1620
agggtcttgc atgcaagatt ttaatggtga cttgtcctgg cttactggga cagtctgtat 1680
gaggcatgtc accacactgt cgctcatag ctgcaagaga gaggcaccag ctgaagttcc 1740
cctgactgaa gagagcctgt ggccatgtaa aaagagaatt aaactcttgt tgctttttgt 1800
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 1843

```

&lt;210&gt; 346

&lt;211&gt; 884

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 346

```

ggtgtgagcc actgtgccca gcagtttccc agaatatatt taaatgcaaa gttacatgag 60
gggaaaacat gtatgtttgc tcctgttggt actgggtagg ttctgaacag cagaaacca 120
tgtgcagggt gggctgggtga aggccctct cgcgaagggt gtagcaggaa aaggctcttg 180
acttgatgaa tttggctctgc ctctgagcca ctggaggaag ctgttttgag ccagggtttt 240
ttggcctaaa gccagcattt cctcagtctc ctttgtggt tcgaaggata tggactattg 300
caatacattt cttccttcaa atcctgccac tgttttggtg gccacaact aataggacct 360
caaaataagc catgctgctt tgcacacaca ctagccttct tttgtacttt tcattctgga 420
tggtgctggc caaaacaggc tcaggccaaa gacctccaa gctgtatgta cttccagtat 480
cctgaaacag tgtttggtga cataatgcc aagggtaaaca agcctgattt aggcactgct 540
ttatccagggt gcttcaccca tgaaattaat aaaacttatc tgagtcactt gaaacttggt 600
tcccagaaaa cacatttctg gtttataatc tccttttatg ctcacctgac attaatatc 660
tatccttgat gatgtgttta aactgagtag cagaaaacag aggccacact ttctgggaaa 720
ttttaaagga agaaaccatt tttaatgaga tgaaaatatt taacgaattt aaaaagctaa 780
tgacaatttt gagaaaagggt ttgggatgta tattgctatg taatttaata aactgatttt 840
atggatataa aaaaaaaaaa aaaaaaaacc tcggggtcgg ggggt 884

```

&lt;210&gt; 347

&lt;211&gt; 391

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (360)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (381)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 347

## 230

```

ggcacgaggc ggcacccctgc tccgtctgca ggttggtgctt ccggtgcgga ggtcagggac 60
aagatgggtgc caccgggtgca ggtctctccg ctcacaaagc tcggccgcta ctccgccctg 120
ttctctcggtg tggcctacgg agccacgccc tacaattacc taaaacctcg ggcagaagag 180
gagaggagga tagcagcaga agagaagaag aagcaggatg aactgaaacg gattgccaga 240
gaattggcag aagatgacag catattaaag tgagtgaccc tgcgaccac tctttggacc 300
agcagcggat gaataaagct tcctgtgttg tgtgataaaa aaaaaaaaaa aaaaaacycn 360
gggggggggc ccggwaccca nttygccaa a 391

```

&lt;210&gt; 348

&lt;211&gt; 2540

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 348

```

ggcaggcaac aggaggtcct gaactagcca gttcagtact tagtccccta ttgaataagg 60
acacaattga tttcttaaat tatactgtca atggtgatga acggcagctg tggatgtcat 120
tgaggaggaac ttggatgaaa gccagagcag agtgccaaa agaacagttt attccaccat 180
atgttccacg attccgcaat ggctgggagc ccccaatgct gaactttatg ggagccacaa 240
tggaacaaga tctttatcaa ctggcagaat ctgtggcaaa tgtagcagaa catcagcgca 300
aacaggaaat aaaaagatta tccacagagc attccagtgat atcagagtat catccagccg 360
atggctatgc gttcagttagc aacatttaca caagaggatc ccacctggac caaggggaag 420
ctgctgttgc ttttaagcca acttctaata gccatataga tagaaattat gaaccactca 480
aaacacaacc caagaaatat gccaaatcca agtatgactt tgtagcaagg aacaacagtg 540
agctctcggt tctaaaggat gatatttttag agatacttga tgatcggaag caatggtgga 600
aagttcgaaa tgcaagtgga gactctggat ttgtgcaaaa taacattttg gatattgtga 660
gacctccaga atctggattg gggcgtgctg atccacctta tactcatact atacagaaac 720
aaaggatgga gtatggccca agaccagctg atactcccc tgctccatca cctcctccaa 780
caccagctcc tgttcctggt ccccttcccc ctccactcc agcacctgtt cctgtgtcaa 840
aggtcccagc aaatataaca cgtcaaaaaca gcagctccag tgacagtggg ggcagtatcg 900
tgcgagacag ccagagacac aaacaacttc cgggtggaccg aagaaatctc agatggagga 960
agtgaagat gaactcatcc acagactgac cattggtcgg agtgccgctc agaagaaatt 1020
ccatgtgcca cggcagaacg tgccakttat caatatcact tacgactcca caccagagga 1080
tgtgaagacg tgggttacagt caaagggatt caacctgtg actgtcaata gtcttgaggt 1140
attaaatggt gcacaacttt tctctctcaa taaggatgaa ctgaggacag tctgccctga 1200
aggggcgaga gtctatagcc aaatcactgt acaaaaagct gcattggagg atagcagtgg 1260
cagctccgag ttacaagaaa ttatgagaag acgacaggaa aaaatcagtg ctgccgctag 1320
tgattcagga gtggaatctt ttgatgaagg aagcagtcac taatttgttt gtttgtattt 1380
aaactccatt gtttttggca ttattccaac atgctttgtt ttaagaagcc ttgaaggga 1440
tgtcagattc atttttcttg atgtaattta tcaccataaa aaaaaaacc atgcaaacct 1500
gagtgagcac aggatttgct tctaggccca ttatttttat taaaactgaa aaaattttaa 1560
ctgaattttt tgaccttgga aaatattttt ctactttac caaggtgaag tttccttaat 1620
tagactaatt attttatccc catcccaggg tataaacagg aattgttttg atagtgggtg 1680
agttattcac tgcaacaaag caacaatgtt gtccatgatt caaaatctaa gcagtttcga 1740
ttttgcctgt gaatatgggtg tctgtcattc agggcatagc tcaactgtagg ctagcctctg 1800
cttacttaag tctctctctt gacatactca atggaagaat atttagattt atttaaagtt 1860
cttaatgcca acagttttaa aaaaaattaa aacatttgaa tgaactgtaa agtacagcca 1920
taccttgagc atgcaaatat aaatctatgg agcattctca agacagtttg tcatggctct 1980
gttgattgca actccttgta tagcttgat tttgatttag tttatattct gcttattatg 2040
tatactgtgt tcttatatat gagaaagcac aaatgcgaaa gaggtcatgt cttctcaaaa 2100
tctagcaaaag gaagtagtct gcattgggtg gcattacagt attttgctta atgaaagcct 2160
cagttctgaa tgttgatatg agtagttaaa aggaagtggg gccattttat gtgtttatct 2220

```

## 231

gtgtcaagta tttctggtaa taagaagcac ttaatttaca catatttttaa tcctgtgaaa 2280  
gattccacat agagaaaaga aagataccta accttcaaca aatgttattt ttggaaacac 2340  
aatttttgtc attaaatggt atattatttc acatatataa aacagatggt atgtaagaat 2400  
gttgtatatt ttaacataaa tcatttagag aaattatcta gattcattaa ttttcatagt 2460  
gcctttttca catgagtcag ctggaaagtc tgcaataaac agtatttgct gtctgttaaa 2520  
aaaaaaaaa aaaaaaaaaa 2540

<210> 349

<211> 1926

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (97)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (281)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (302)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (326)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1879)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1885)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1891)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1892)

<223> n equals a,t,g, or c

232

&lt;400&gt; 349

```

gcgagggggc gkggggagca ggcgcgaggc cgccgcctcc gcctccgccg cctaggacta 60
gggggtgggg gacggacaag ccccgatgcc ggggganacg gaagagccga gacccccgga 120
gcagcaggac caggaagggg gagaggcggc caaggcggtc ccggaggasc cscaacaacg 180
gccccctgag gcggtcgcgg cggcgcctgc agggaccact agcagcccg tgetgagggg 240
aggtcgggac cgaggccggg ccgctgcggc gcgcgcgcgc ngcagctgtg tcccccgga 300
gnaaggccga gtatccccgc cggcgnagga gcagccccag cgccaggcct cccgacgtcc 360
ccgggcagca gcccaggccg cgaagtcccc gtctccagtt cagggcaaga agagtcccg 420
actcctatgc atagaaaaag taacaactga taaagatccc aaggaagaaa aagaggaaga 480
agacgattct gccctccctc aggaagtttc cattgctgca tctagaccta gccggggctg 540
gcgtagtagt aggacatctg tttctcgcca tcgtgataca gagaacacc gaagctctcg 600
gtccaagacc ggttcattgc agctcatttg caagtcagaa ccaaatacag accaacttga 660
ttatgatgtt ggagaagagc atcagtctcc aggtggcatt agtagtgaag aggaagagga 720
ggaggaagaa gagatgttaa tcagtgaaga ggagatacca ttcaaagatg atccaagaga 780
tgagacctac aaacccact tagaaaggga aaccccaaag ccacggagaa aatcagggaa 840
ggtaaaagaa gagaaggaga agaaggaaat taaagtggaa gtagagggtg aggtgaaaga 900
agaggagaat gaaattagag aggatgagga acctccaagg aagagaggaa gaagacgaaa 960
agatgacaaa agtccacgtt taccctaaaag gagaaaaaag cctccaatcc agtatgtccg 1020
ttgtgagatg gaaggatgtg gaactgtcct tgccctcct cgctatttgc agcaccacat 1080
taaataccag ctttgtctga agaagaaata tgtatgtccc catccctcct gtggacgact 1140
cttcaggctt cagaagcaac ttctgcgaca tgccaaacat catacagatc aaagggatta 1200
tatctgtgaa tattgtgtc ggccttcaa gagttccac aatctggcag tgcaccggat 1260
gattcacact ggcgagaagc cattacaatg tgagatctgt ggatttactt gtcgacaaaa 1320
ggcatctctt aattggcaca tgaagaaaca tgatgcagac tccttctacc agttttcttg 1380
caatatctgt ggcaaaaaat ttgagaagaa ggacagcgta gtggcacaca aggcaaaaag 1440
ccaccctgag gtgctgattg cagaagctct ggctgccaat gcaggcgccc tcatcaccag 1500
cacagatata ttgggcacta acccagagtc cctgacgcag ccttcagatg gtcagggctc 1560
tcctcttctt cctgagccct tgggaaactc aacctctgga gagtgcctac tgttagaagc 1620
tgaagggatg tcaaagtcac actgcagtgg gacggaacgg gtgagcctga tggctgatgg 1680
gaagatcttt gtgggaagcg gcagcagtgg aggcactgaa gggctggtta tgaactcaga 1740
tatactcggg gctaccacag aggttctgat tgaagattca gactctgccg gaccttagtg 1800
gacaggaaga cttggggcat gggacagctc agactttgta tttaaaagtt aaaaaggaca 1860
aaaaaaaaaa aaaggggcng gccgnttcta nnaggatcca agctttacgt accccgttgc 1920
aatgcc 1926

```

&lt;210&gt; 350

&lt;211&gt; 1233

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1222)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 350

```

tcctgcacgc acagttgcag ttagttatcc caggtattat ttttgttttc agaaaaagaa 60
aactcagtag aagataatgg caagtccaga ctggggatat gatgacaaaa atggtcctga 120
acaatggagc aagctgtatc ccattgcca tggaaataac cagtcccctg ttgatattaa 180
aaccagtga accaaacatg acacctctct gaaacctatt agtgtctcct acaaccagc 240

```

## 233

```

cacagccaaa gaaattatca atgtgggggca ttccttccat gttaaattttg aggacaacga 300
taaccgatca gtgctgaaag gtggtccttt ctctgacagc tacaggctct ttcagttcca 360
ttttcactgg ggcagtacaa atgagcatgg ttcagaacat acagtggatg gagtcaaata 420
ttctgccgag cttcacgtag ctactggaa ttctgcaaag tactccagcc ttgctgaagc 480
tgcctcaaag gctgatgggt tggcagttat tgggtgtttt atgaagggtg gtgaggccaa 540
cccaaagctg cagaaagtac ttgatgccct ccaagcaatt aaaaccaagg gcaaacgagc 600
cccattcaca aattttgacc cctctactct ccttccttca tccctggatt tctggacctt 660
ccctggctct ctgactcatc ctctcttcta tgagagtgtg acttggatca tctgtaagga 720
gagcatcagt gtcagctcag agcagctggc acaattccgc agccttctat caaatgttga 780
aggtgataac gctgtcccca tgcagcaca caaccgcca acccaacctc tgaagggcag 840
aacagtgaga gcttcatttt gatgattctg agaagaaact tgtccttcct caagaacaca 900
gccctgcttc tgacataatc cagtaaaata ataattttta agaaataaat ttatttcaat 960
attagcaaga cagcatgcct tcaaatcaat ctgtaaaact aagaaactta aattttagtt 1020
cttactgctt aattcaaata ataattagta agctagcaaa tagtaatctg taagcataag 1080
cttatgctta aattcaagtt tagtttgagg aattctttaa aattacaact aagtgatttg 1140
tatgtctatt tttttcagtt tatttgaacc aataaaataa ttttatctct ttmaaaaaaa 1200
aaaaaaaaac cccggggggg gncccggtcc cca 1233

```

&lt;210&gt; 351

&lt;211&gt; 2510

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2503)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2509)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 351

```

gcgagcgcgt ggggaaggac agcagagctg acagtcacag cagccctgac aagagagttc 60
ctggagccca agctcttctc cacagaggac aagcaggcag cagagaccat ggggtcccct 120
tcagcctgtc catcacagag gtgcattccc tggcaggggc tctgtctcac agcctcgctt 180
ttaaccttct ggaacctgcc aaacagtgcc cagaccaata ttgatgtcgt gccgttcaat 240
gtcgcagaag ggaaggaggt ctttctagta gtccataatg agtcccagaa tctttatggc 300
tacaactggg acaaagggga aagggtgcat gccaaactatc gaattatagg atatgtaaaa 360
aatataagtc aagaaaatgc cccagggccc gcacacaacg gtcgagagac aatatacccc 420
aatggaaccc tgctgatcca gaacgtcacc cacaatgacg caggawtcta taccctacac 480
gttataaaaag aaaatcttgt gaatgaagaa gtaaccagac aattctacgt attctcggag 540
ccaccaagc cctycatyac cagcaacaac ttcaatccgg tggagaacaa agatattgtg 600
gttttaacct gtcaacctga gactcagaac acaacctacc tgtgggtggg aaacaatcag 660
agcctcctgg tcagtcccag gctgctgtct tccactgaca acaggaccct cgttctactc 720
agcgccacaa agaatgacat aggaccctat gaatgtgaaa tacagaaccc agtgggtgcc 780
agccgcagtg acccagtcac cctgaatgtc cgctatgagt cagtacaagc aagttcacct 840
gacctctcag ctgggaccgc tgtcagcatc atgattggag tactggctgg gatggctctg 900
atatagcagc cttggtgtag tttctgcatt tcgggaagag tgactggact ggattcttct 960
agctccttca atccccatct ctctgtggc atcactaagt ataagacctg ctctcttcct 1020

```

```

gaagacctat aagctggagg tggacaactc aatgtaaatt tcaaggaaaa accctcatgc 1080
ctgagatgtg ggccactcag agctaaccac aatgttcaac accataacta gagacactca 1140
aattgccaac caggacaaga agttgatgac ttcattgctgt ggacagtttt tcccaagatg 1200
tcccaagcct catcgtgacg aggctcttat cccactccat ttttcctgc tcatgcctgc 1260
ctctttaatt tggtaagata atgctgtaac tagaatttca caatcagcgc cttgtgcagg 1320
taatttgaca gagtggttga tgtgtcatgt catcatgtca aacccaaata tttgacctaa 1380
gggatccttt attctgcccc gtggctaact ttaacaacat ccctaataca actgtttatt 1440
caaatgcacg gtggctccctg ttagagttag acctctagac tcacctgttc tcacgccctg 1500
ttttaattta acccagctat gggatgccag ataacagaat tgctgcctac tagctgaaca 1560
gggaggagtt tgtgcagttg ctgacacttc ttgttgcaaa taaataaata cagtgggtac 1620
tatagagact cagttgcaaa aattaacaaa tatgctgctt gattaaaatg ggtaggcttc 1680
tcatgtggct cattctttaa tctattctct tttatttggg ttggttcatt gggctctctgc 1740
ctatggatca tacttcaaac tcttgggtgtg atcctcctga ttgtcacaat attagttacc 1800
ctgggtgtgt gtattctcta aaacctttaa atgtttgcat gcagccattc gtcaaatgtc 1860
aaatattctc tctttggctg gaatgacaaa aactcaataa aatgtatgat taggaggaca 1920
tcataacctt tgaatgatgg aagtccaaaa tgatggtaac tgacagtagt gttaatgcct 1980
tatgtttagt caaactctca tttagggtgac agcctgggtga ctccagaatg gagccagtca 2040
tgctaaatgc catatactca cactgaaaca tgaggaagca ggtagatccc agaacagaca 2100
aaattttcct aaaaacatga gagtccaggc tgtctgagtc agcacagtaa gaaagtcctt 2160
tctgctttta ctcttagaaa aaagtaatat gaagtattct gaaattaacc aatcagttta 2220
tttaaatcaa tttatttata ttcttctgtt cctggattcc cattttacaa aacctactgt 2280
tctactgttg tattgcccag taggagctat cactatattt tgcagaatgg aaactgcctt 2340
gactcatgaa tcacaaataa aagccaattg tatctataaa aaaaaaaaaa aaaaaaaaaa 2400
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2460
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aangggggnc 2510

```

<210> 352

<211> 2765

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2758)

<223> n equals a,t,g, or c

<400> 352

```

gcggacgcaa cagcgggggtc ccgcgctgtc tgggcggccc caggggctgt cggctcactt 60
ccgggaacgc cggggaaccg cagtagccgc ctgctagtgg cgctgctagc cggccggcgc 120
aggctgccga gcgggtgagc gcgcaggcca ggccaaagcc ctggtacccg cgcggtgcgg 180
gcctcagtct gcggccatgg gggcgctcgc gcggctgctg cgagcgggtga tcatgggggc 240
ccggggctcg ggcaagggca ccgtgtcgtc gcgcactact acacacttcg agctgaagca 300
cctctccagc ggggacctgc tccgggacaa catgctgcgg ggcacagaaa ttggcgtgtt 360
agccaaggct ttcattgacc aagggaaact catcccagat gatgtcatga ctcggtggc 420
ccttcatgag ctgaaaaatc tcaccagta tagctggctg ttggatgggt ttccaaggac 480
acttccacag gcagaagccc tagatagagc ttatcagatc gacacagtga ttaacctgaa 540
tgtgcccttt gaggtcatta aacaacgcct tactgtctgc tggattcatc ccgccagtgg 600
ccgagtctat aacattgaat tcaacctcc caaaactgtg ggcattgatg acctgactgg 660
ggagcctctc attcagcgtg aggatgataa accagagacg gttatcaaga gactaaaggc 720
ttatgaagac caaacaagc cagtcctgga atattaccag aaaaaagggg tgctggaaac 780
attctccgga acagaaacca acaagatttg gccctatgta tatgctttcc taaaaactaa 840

```



235

agttccacaa agaagccaga aagcttcagt tactccatga ggagaaatgt gtgtaactat 900  
taatagtaag atgggcaaac ctccatagtc ttgcatttag aagctgcttt tcctaagact 960  
tctagtatgt atgaattcct tgaaaattat attactttta tttctactga ttttattttg 1020  
gatactaagg atgtgccaaa tgattcggat actaagatgc atcgtttgaa atcatctagt 1080  
gtgttgtatg cagttatcct caaaaacatc agcgatgtct gaacctttaa aacatctgtt 1140  
agagcaaaat taaaagagca tttggtagta atctaacttt ttgttcagtt aataagtggg 1200  
tgataaagtt tccatatttt tctggaaaag ttaaaaaaag ttacatgtca tttggagaaa 1260  
atacgtaatc agaaatttgt gcatagattg atgccaaaaa agacatttcc agcattgtgg 1320  
aacatggtga gacactatat aaaattccag aaagaaagca actggattta cagattttatt 1380  
gtgagacaca aattcactgc tgcctttaca ctaagaaatg tatatgttaa ccatatatgc 1440  
tgtatttatt ttgtcgttaa gcatactttc agtttactca gaattttcaa tttgctataa 1500  
agatgtatca attagcatat agaaaaatat tactttaaga tgacttgttt cctttgaaaa 1560  
tacctgtgta ctgaggggta tgatttgtgt caaaaattga cataagtgtt tttacaagca 1620  
ccaaagttga atgaattttc aacaaaatgt aattaaagtc tatgttttca gttatgactc 1680  
agggttaaga atgtgtttta ggatctactt gctgggtttt ctttttgatc caaatgtgtg 1740  
atctgccctg ataaataaca agttatagta ccatctcccc cgccaataaa aaagagaaga 1800  
aaaaagagaa acccgtggca ctatgtaaat aaagtaagca tactttgttg ttagtaaata 1860  
gatgaggcat gcctgggaaa tgctcccttg gcataaatag caatcaatta taattagtaa 1920  
acagggtgtac caataaaaag aatttacatg ataggttaac aaggaccagg aaagtgagtt 1980  
tcctgaagga gttctttgtt cctgatcaaa gaaattgata cctgttagca ttcactgcca 2040  
ccatatttta aggagaaaga actctattgg tgtcgtctga gcagccattt aaaaattgga 2100  
atctaaagga tgggtgctga tgtactgtgt ggtctggtag aagtggggaa atatgagaga 2160  
tgagggaaaa acttgattat gtcttccatg gcataattac tcttacttta cttcgtgcca 2220  
aatcaaatga aacaagccgt cttacaagtc gttattgcct ttaaaaatct gttccgtttt 2280  
tttcccaggc acttaaaata caagtgccag taagtgggtc ttatgtgttt tggggggaaa 2340  
attttatttc ctttttcttc tgatatttaa aaaattcatc gatctttcaa gatgaaccaa 2400  
ggttttttaa agaawtata ggaaacactt cattctttat aaaactttct ataatgcctt 2460  
atttgaatgt taatcttatg tgctttctaa aaaatgttgt gaaataccaa acttatggat 2520  
tatcactagg ttatcaagca tatattagtc tttatcagaa taaaatgaaa tttcataact 2580  
gtggctatta ctttgttctt ggtccttcac agggcctgct ccatcccacc ttcctttctg 2640  
ctgcctgatg tctcaatggc ttctgaatga ctgttctaataaatgatcctt aaaacagaaa 2700  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2760  
agaga 2765

&lt;210&gt; 353

&lt;211&gt; 1755

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (134)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (140)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 353

ggcttccggg cccctgagac tggggcctcg ctcgctcccg acccggttgc aagtgttgcg 60

236

```

gtgggagaaa gtcgcgtccg catcggaggg gaagcgccgt catgcctaag tattatgagg 120
acaagccgca ggcngcgcgn tgcgcggggc tgaaggagga cctgggcgcg tgtctgctgc 180
agtcggactg tgtggtccag gaaggaaaat cacctcggca gtgtttgaag gaaggatact 240
gcaactcttt gaagtacgca ttttttgagt gtaaaagatc agtggtgat aacagggcaa 300
gattcagagg aagaaaagga tattgatgca ttatgttgaa gccaacatgg aaaacaacaa 360
atattttccc tggtcattaa cacaaagaag ccaaaacagg aaacatactt tttactacat 420
ctgtttgggt ggaccagatt tcccctccgt ggaacactga agaaagtgga tgagttgttt 480
tcgaatatgt ataaagtaaa tgattctctt gatccaagtt atttttagaa gaaaaaccta 540
attgaacagg tatgggttgg gagcataata aatgtgtttt gagaattgtt ctaaagcaca 600
gaaaatggaa agactgttat ttgcaaaactt gactcttcaa ttgrattacc caattagtag 660
aggccactga tttgactgac acagtcgata acatgcagcc tatccagaag gtgtctgttg 720
ggaaagttta ggataaaaact ttttcttttag ttcagtcttt tcctgtctag ttctaaaatg 780
aattgtgttt gattccttag agaagaaata cttcatttgt gctctgattc actgaagtaa 840
taacctcagc actttaatag cgtccacagg catagctgat gctaggcccc agattgtgtt 900
gcccaggctc tttaccatca tcttcggact gtttttgttt cctgggttaca ttttcagtct 960
ggcccgctct acataatggg ccagtgtcag ctccaagtcc acatccttat tatccatgat 1020
tcaaagggga gagagagaac ttcttttttc aggggtccaca aatcaaactc ataaaaggac 1080
tctggtcttc ccaggatcac ctgcccttgc attggaccag tcctgtgga agaggggatg 1140
ggggcctgtg atcttgcca ggcctgggct atctatctgc actgtcattg ctaactcctg 1200
tcagaatcac atggatgagt agtgggctga atcccaaaag gaaaggggtt tagagcaagt 1260
ggaaacaaca gatgttcact atagaaagca agaatgaaaa ccatgaagtg gttgaagatt 1320
agccttacag taattttatt ctgatcactt aatacagtag agtcaaacag gaatccaagt 1380
ttccaacttt attatttttg gactgaaga attacaaaga actctagcgt ctttatacct 1440
ccgtggttca ctggagttaa agcaatcggg gcgttgtaca gctcacttga gtttttaaag 1500
gttctactaa aaagtgagaa ttccacagca atatgggtca ttgttgaga atatcacaaa 1560
ggtctgttgt gtatactcct tttcaccagg aaagggacaa taatagtttt tttcaatgta 1620
tatatatata agtgatctaa ctttttatta ataaaagtaa acaactctaa aatgtatatt 1680
ataaagccct gtcacttttg ttgagtaata gctttattga gctttatttg gagaaataca 1740
cataccgtaa aattc

```

&lt;210&gt; 354

&lt;211&gt; 1959

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 354

```

gcaggccagc cccatgggga agcgcagacg ccggmgcctg ggcgctctga gattgtcact 60
gctgttccaa gggcacacgc agagggattt ggaattcctg gagagttgcc tttgtgagaa 120
gctggaaata tttctttcaa ttccatctct tagttttcca taggaacatc aagaaatcat 180
gaacaacttt ggtaatgaag agtttgactg ccacttctc gatgaagggt ttactgccaa 240
ggacattctg gaccagaaaa ttaatgaagt ttcttcttct gatgataagg atgccttcta 300
tgtggcagac ctgggagaca ttctaagaa acatctgagg tggttaaaag ctctccctcg 360
tgtcaccccc ttttatgcag tcaaatgtaa tgatagcaaa gccatcgtga agacccttgc 420
tgctaccggg acaggatttg actgtgctag caagactgaa atacagttgg tgcagagtct 480
gggggtgcct ccagagagga ttatctatgc aaatccttgt aaacaagtat ctcaaattaa 540
gtatgctgct aataatggag tccagatgat gacttttgat agtgaagttg agttgatgaa 600
agttgccaga gcacatccca aagcaaagtt ggttttgcgg attgccactg atgattccaa 660
agcagtctgt cgtctcagtg tgaaattcgg tgccacgctc agaaccagca ggctcctttt 720
ggaacgggag aaagagctaa atatcgatgt tgttggtgtc agcttccatg taggaagcgg 780
ctgtaccgat cctgagacct tcgtgcaggc aatctctgat gcccgtgtg tttttgacat 840
gggggctgag gttggtttca gcatgtatct gcttgatatt ggcggtggct ttcttgatc 900

```

237

```

tgaggatgtg aaacttaaat ttgaagagat caccggcgta atcaaccag cgttggacaa 960
atactttccg tcagactctg gagtgagaat catagctgag cccggcagat actatgttgc 1020
atcagctttc acgcttgacg ttaatatcat tgccaagaaa attgtattaa aggaacagac 1080
gggctctgat gacgaagatg agtcgagtg gacagacctt atgtattatg tgaatgatgg 1140
cgtctatgga tcatttaatt gcatactcta tgaccacgca catgtaaagc cccttctgca 1200
aaagagacct aaaccagatg agaagtatta ttcattccagc atatggggac caacatgtga 1260
tggcctcgat cggattgttg agcgctgtga cctgcctgaa atgcatgtgg gtgattggat 1320
gctctttgaa aacatgggag cttacactgt tgctgctgcc tctacgttca atggcttcca 1380
gaggccgacg atctactatg tgatgtcagg gcctgcgtgg caactcatgc agcaattcca 1440
gaaccccgac tccccacccg aagtagagga acaggatgcc agcaccctgc ctgtgtcttg 1500
tgctgggag agtgggatga aacgccacag agcagcctgt gcttcggcta gtattaatgt 1560
gtagatagca ctctggtagc tgtaactgc aagtttagct tgaattaagg gatttggggg 1620
gaccatgtaa cttaattact gctagttttg aaatgtcttt gtaagagtag ggtcgccatg 1680
atgcagccat atggaagact aggatatggg tcacacttat ctgtgttctt atggaaacta 1740
tttgaatatt tgttttatat ggatttttat tcaactctta gacacgctac tcaagagtgc 1800
ccctcagctg ctgaacaagc atttgtagct tgtacaatgg cagaatgggc caaaagctta 1860
gtgttgtgac ctgtttttta aataaagtat cttgaaataa ttaaaaaaaa aaaaaggggg 1920
gccgccctag gggttcccaa gtttacgtac gctgcatgg 1959

```

&lt;210&gt; 355

&lt;211&gt; 1067

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 355

```

aattcggcac gaggtcactg ctggctgagg ctgcgctcag gcccgtggat ctcatcgaag 60
atggcggcgc gatctgtgtc gggcattacc agaagagtct tcatgtggac agtctcaggg 120
acaccatgta gagaattttg gtctcgattc agaaaagaga aagagccagt ggttgttgag 180
acagtagaag agaaaaagga acctatccta gtgtgtccac ctttacgaag ccgagcatac 240
acaccacctg aagatctcca gagtcgtttg gaatcttacg ttaaagaagt ttttggttca 300
tctcttccta gtaattggca agacatctcc ctggaagata gtcgtctaaa gttcaatctt 360
ctggctcatt tagctgatga cttgggtcat gtagtcctta actccagact ccaccagatg 420
tgcagggtta gagatgttct tgatttctat aatgtcccta ttcaagatag atctaaattt 480
gatgaactca gtgccagtaa tctgcccccc aatttgaaaa tcacttgagg ttactaagca 540
attcgaaga gaaacacatt gaaatcactg tctttccctg agcaaggggg ctgctcatta 600
gatcttttga tactttacca tgtgaaatac taccagaact gttctctaaa cccacttttt 660
ctgtagagga atgtatcatc ttttttttcc tcatattaca aatggacaaa taacggactt 720
tctattttca tatttgctga aaccattttt taaatgaaat taggtcatta tttatgaaaa 780
gttttgagag ggcactgtca acttgggttt aagacaggag gacattgcaa gttcacacct 840
ttcataagca taaagtagtt gcaagaaagt attttcatcc tgtaggatt catatctaag 900
atagagttat gcattgcaca tacacaaata aacttttatt agatagatac ctataaaaga 960
aacataaaaag tatgttgtgt attactgaca gttctagatt aatttctttt agaattaaag 1020
tagatttggt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa 1067

```

&lt;210&gt; 356

&lt;211&gt; 1023

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

238

&lt;222&gt; (996)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (998)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1003)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1016)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 356

```

cctagtgcgt agcgccccggc tcctgcaggc gctcggcctc cgctcattcc tgacccccgca 60
gtgggcgcga tggcggaggc tgtactgagg gtcgccccggc ggcagctgag ccagcgcggc 120
gggtctggag ccccatcct cctgcggcag atgttcgagc ctgtgagctg caccttcacg 180
tacctgctgg gtgacagaga gtcccgggag gccgttctga tcgaccagc cctggaaaaca 240
gcgcctcggg atgcccagct gatcaaggag ctggggctgc ggctgctcta tgctgtgaat 300
accactgcc acgcggacca cattacaggc tcggggctgc tccgttccct cctccctggc 360
tgccagtctg tcattctccc ccttagtggg gccagggctg acttacacat tgaggatgga 420
gactccatcc gcttcgggcg cttcgcgttg gagaccaggg ccagccctgg ccacaccca 480
ggctgtgtca ccttcgtcct gaatgaccac agcatggcct tcaactggaga tgccctgttg 540
atccgtgggt gtgggcggac agacttcag caaggctgtg ccaagacctt gtaccactcg 600
gtccatgaaa agatcttcac acttcagga gactgtctga tctaccctgc tcacgattac 660
catgggttca cagtgtccac cgtggaggag gagaggactc tgaaccctcg gctcaccctc 720
agctgtgagg agtttgtcaa aatcatgggc aacctgaact tgcctaaacc tcagcagata 780
gactttgctg ttccagccaa catgcgctgt ggggtgcaga caccactgc ctgatctcac 840
ttctgtcaga tgctcccatc cactattaat gcactagggt ggaggagagg gcggcaatga 900
cactgcacct ctcccttccc accgcattcc ctggagctcc ctaaataaaa ctttttttaa 960
cgtgaaaaaa aaaaaaaaaa aaaggggggg ccgctnangg ggntcaaatt ttaggnacgg 1020
ggg 1023

```

&lt;210&gt; 357

&lt;211&gt; 1953

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (45)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (47)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1686)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1821)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1920)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1927)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1935)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1948)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1951)

<223> n equals a,t,g, or c

<400> 357

```

gtcacgagcg agggggtgcg tgtgaggtca tcgcgcgggc gggcntncgg ggtctggcgg 60
tttgaacgag acgaagacgg aaccggagcc ggttgcgggc agtggacgcg gttctgccga 120
gagccgaaga tggcagtga cgtatactca acgtcagtga ccagtgataa cctaagtcga 180
catgacatgc tggcctggat caatgagtct ctgcagttga atctgacaaa gatcgaacag 240
ttgtgctcag gggctgcgta ttgtcagttt atggacatgc tgttccctgg ctccattgcc 300
ttgaagaaag tgaaattcca agctaagcta gaacacgagt acatccagaa cttcaaaata 360
ctacaagcag gttttaagag aatgggtggt gacaaaataa ttctgtgga caaattagta 420
aaaggaaagt ttcaggacaa ttttgaattc gttcagtggt tcaagaagtt tttcgatgca 480
aactatgatg gaaaagacta tgacctgtg gctgccagac aaggtaaga aactgcagtg 540
gtccttccc ttgttgctcc agctctgaat aaaccgaaga aacctctcac ttctagcagt 600
gcagctcccc agaggcccat ctcaacacag agaaccgctg cggctcctaa ggctggccct 660
gggtgtggtg gaaagaaccc tgggtgtggc aacggagacg acgaggcagc tgagttgatg 720
cagcaggtca acgtattgaa acttactggt gaagacttgg agaaagagag ggatttctac 780

```

240

```

ttcggaaagc tacggaacat tgaattgatt tgccaggaga acgaggggga aaacgaccct 840
gtattgcaga ggattgtaga cattctgtat gccacagatg aaggctttgt gatacctgat 900
gaagggggcc cacaggagga gcaagaagag tattaacagc ctggaccagc agagcaacat 960
cggaattctt cactccaaat catgtgctta actgtaaaat actccctttt gttatectta 1020
gaggactcac tgggtttctt tcataagcaa aaagtacctc ttcttaaagt gcactttgca 1080
gacgtttcac tcctttttcca ataagtttga gttaggagct tttaccttgt agcagagcag 1140
tattaacayc tagttgggtc acctggaaaa cagagaggct gaccgtgggg ctcaccatgc 1200
ggatgcgggt cactctgaat gctggagaga tggtatgtaa tatgctgagg tggcgacctc 1260
agtggagaaa tgtaaagact gaattgaatt ttaagctaag gtgaaatcag agaattgtgt 1320
aataagtaaa tgccttaaga gtatttaaaa tatgcttcca catttcaaaa tataaaatgt 1380
aacatgacaa gagattttgc gtttgacatt gtgtctggga aggaagggcc agaccttgga 1440
acctttggaa cctgctgtca acaggtctta cagggtctgt tgaacctca taggcctagg 1500
ctttggtcta aaaggaacat ttaaaaagtt gccctgtaaa gttatttggg gtcattgacc 1560
aattgcatcc cagctaaaaa gcaagaggca tcgttgcttg gataatagag gatgtgtttc 1620
agccctgaga tgttacagtt gaagagcttg gttttcattg rgcatttcyc yatttitycca 1680
gttatncccg aaatttctat gtattatatt ttttggggaa gtgaggtgtg cccagttttt 1740
taatctaaca actacttttg gggacttgcc cacatytctg ggatttgaat ggggattgta 1800
tccattttta ctggctttta nggttacatt taccaccttt tctcttctct gctcccttgc 1860
ccactggggg actcctcttt tggcctcctt ggaagtttgc tgcttaaaag ttggaaagtn 1920
ccaccangcc aggtngattc catgcctngc naa 1953

```

&lt;210&gt; 358

&lt;211&gt; 2026

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (701)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 358

```

ccctcctctt ccttcctctt tatagggaga cactctgaga aagagcacat tgtggggggc 60
cactccatgt gatgtttgct tgggtgcctg ttcccttttc tacctgcaga gcacggttcc 120
cataagggcg gcgagatcag cctcctgtct catctggaag accaccactc tggggctctca 180
gaggaatgat ggaagccttg gggtttctaa aattggaagt gaatggcccc atggtgacgg 240
tggccctgtc agtggctctc ttggccctcc tgaaatggta ctccacatca gcattctcaa 300
gactggagaa gttaggcctc agacatccca agccttctcc tttcattgga aacttgacat 360
ttttccgcca gggtttttgg gaaagccaaa tggagctcag aaagctgtat ggacctctgt 420
gtgggtacta tcttggtcgt cggatgttta ttgttatttc tgagccagac atgatcaagc 480
aggtgttggg tgagaacttc agtaacttta ccaacagaat ggcgtcgggt ttggagttca 540
agtcggtagc cgacagcgtt ctgtttttac gtgacaaaag atgggaagag gtcagagggtg 600
ccctgatgtc tgctttcagt cctgaaaagc tgaacgagat ggttccccctc atcagccaag 660
cctgcgacct tctcctggct catttaaaac gctatgcgga natctgggga cgcatttgac 720
atccagaggt gctactgcaa ttacaccaca gatgtggttg ccagcgtcgc ctttggcacc 780
ccggtggact cctggcaggc ccctgaggat ccctttgtga aacactgcaa gcgtttcttc 840
gaattctgca tccccagacc tatectggtt ttactcttat catttccatc cataatggtc 900
ccactggccc ggatttttgc caataagaac cgagacgaac tgaatggctt ttttaacaaa 960
ctcattagga atgtgattgc cttgcgggac cagcaagctg ccgaagagag gcggagagac 1020
ttcctccaaa tggtcctgga tgcccagat tctgcaagtc ccatgggcgt gcaagacttt 1080
gacatcgtca gagacgtttt ctctctact gggtgcaagc cgaaccttc cgggcaaac 1140

```

241

```

cagcccagcc ctatggccag gcctttgact gtggatgaga ttgtgggcca ggccttcac 1200
ttcctcatcg ctggctatga aatcatcacc aacacacttt cttttgccac ctacctactg 1260
gccaccaacc ctgactgcca agagaagctt ctgagagagg tagacgtttt taaggagaaa 1320
cacatggccc ctgagttctg cagcctcgag gaaggcctgc cctatctgga catggtgatt 1380
gcagagacgc tgaggatgta cccgccagct ttcagattca cacgggaggc agctcaggac 1440
tgcgaggtgc tggggcagcg catccccgca ggcgctgtgc tagagatggc cgtgggtgcc 1500
ctgcaccatg accctgagca ctggccaagc cgggagacct tcaaccctga aagggttcacg 1560
gctgaggccc ggcagcagca ccggcccttc acgtacctgc ctttcggggc cggccacgg 1620
agctgcctcg ggggtgcgtct agggctgctt gaggtcaagt tgacactgct ccacgtgctg 1680
cacaagttcc ggttccaagc ctgccctgag acccaggtac cgctgcagct agaatccaaa 1740
tctgccctag gtccaaaaaa tgggtgtctat atcaagatcg tatcccgctg acacagaagg 1800
ctgccgggtg gggggagggc acccccaaat tcaaagaaaa ccctaagtgt ggatgttcag 1860
aattttgaa aaatgtcact gaagtgattg aaagagtgcc tggcatgcaa ggataagagg 1920
ttctttacat aacatttcct aaatgcttaa taaacgtttg ttgacttgg ttttgacatt 1980
gccaaaaaaa aaaataagaa gaaaatgaaa aaagttttgc gtcgac 2026

```

&lt;210&gt; 359

&lt;211&gt; 1799

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 359

```

ggttggttgt cagtctcggc ggcggcgggcg gcggyggcg ggcggcgat ccacagtgat 60
tcggccgcgc cgccgggggg tgggggggct gcgcgggact ttttttttt tcagactgac 120
cgcggggcag ctgcggagca tgctgacccc ggcccgagg aggctcatgc gggatttcaa 180
gcggttacaa gaggaccac ctgtgggtgt cagtggcgca ccatctgaaa acaacatcat 240
gcagtggaat gcagttatat ttggaccaga agggacacct tttgaagatg gtacttttaa 300
actagtaata gaattttctg aagaatatcc aaataaacca ccaactgtta ggtttttatc 360
caaaatgttt catccaaatg tgtatgctga tggtagcata tgtttagata tccttcagaa 420
tcgatggagt ccaacatatg atgtatcttc tatcttaaca tcaattcagt ctctgctgga 480
tgaaccgaat cctaacagtc cagccaatag ccaggcagca cagctttatc agggaaaaca 540
acgagaatat gagaaaagag tttcgcccat tgttgaacaa agctggaatg attcataata 600
gacaactggc ctgttaatct tttcatcat tgttgtgtat aatttacctc tcattagaaa 660
ggctaacaaa ttttaagtgc cacaggtttt aaggattctg cagaaaaaaa agaaaaaagt 720
ccttcagttt agaacctaca aaagcttgtg tatcttgatt aatgtacttt ttattgcatg 780
gtgtgaacta agttattgct gcataaat ttaatatatc ctgtttgtat ttttttccaa 840
gtgtataatg ttgggtgtgga gttttcatga cagaatatac acattttgta aatctgtact 900
tttttcaaat attgaatgcc ttatttttga attctttaga tttttaaat ggagaaaagc 960
acttaaagtt ttttatatat gaatattaca tgtaaagctg ttaaaatata taacttcagt 1020
gcaagagact ttgtcactta tttccttatg tgtgtaggag gggtaataa gtctctagct 1080
ctccatctat tgatagtttc atttacaatt tcaaaagaac attcttatat tttatcaagg 1140
aagtcttcaa atttgattct aaatagcgat tataatctcc aactttattt tgaatgtacc 1200
tctattagtt tcaattgagt aattctagac ataactgggt tgactctgtc caactctgta 1260
tttaggccat ttgttacagt ttcttcatgc attacttact gttaaaactg taccttttgc 1320
gatttcacag ttggcacttc tgccatgagc agagaactga tgcgacttgt tttgctgctt 1380
ggtagcactt taaaaaattt tttgattaat gaagaaagta aaaccataaa catttgccaa 1440
aaattcatgc ccagtatta gcaatgaatt agttgcattg gtttgagaaa ggcacatatt 1500
ggaggggaaat cttgggtgtaa cttaaatatt tgaaaattac ctttaatgca atgcatatct 1560
gtttattctg ggaaatgttt taatgccagg gcctgctgag ttgcttcttc ttgtggagat 1620
ttttttttta atctcctgag ttgtataaaa gttgtactgc atcttagttt actggataaa 1680
tttaaacac agtattgtag aaagctaata caaaactatc ctatgccttc aaatagtata 1740

```

242

gaaaatggaa aatatacaag taaattctgt tgaacccaaa aaaaaaaaaa aaaaaaaaaa 1799

<210> 360

<211> 510

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (417)

<223> n equals a,t,g, or c

<400> 360

```

ggtccagaag cctccccgac cccccaagct atttgctcac attaacaaat taaagtgcct 60
gaagcataat tyatttttgt atctgtggta acaaaacatt aaccaaaaga ttttctgtcc 120
cagaagcctc cccgaccccc caagctatct gctcacatta acaaattaaa gtgcctgaag 180
cataattcat tctttacctg tatactaaaa accctgttgt attgattttt ttataataag 240
cctttttacc tctgtgtaaa aaatatatat acaagtgtat gatgtacatt ttagttctta 300
actttttttt atgggtttcta atatgtatga ccaatgtagc cattgcttta aaatgtaccg 360
tgtaaatata aacacatcct atgcaraaaa aaaaaaaaaa aagggcgggc gctctanagg 420
atccaagctt acgtacgcgt gcatgcgacg tcatagctct tctatagtgt cacctaaatt 480
caattcactg gccgtcgttt tacaacgtcg                               510

```

<210> 361

<211> 1087

<212> DNA

<213> Homo sapiens

<400> 361

```

ccaaagtgtc gggattgtgg gcatgagctg ctgtgcccag cctccatgtt ttaatatcaa 60
ctctcactcc tgaattcagt tgctttgccc aagataggag ttctctgatg cagaaattat 120
tggtgtcttt tagggtaaga agtttgtgtc tttgtctggc cacatcttga ctaggtattg 180
tctactctga agacctttaa tggcttccct ctttcatctc ctgagtatgt aacttgcaat 240
gggcagctat ccagtgactt gttctgagta agtgtgttca ttaatgttta tttagctctg 300
aagcaagagt gatatactcc aggacttaga atagtgccta aagtgctgca gccaaagaca 360
gagcggaaact atgaaaagtg ggcttggaga tggcaggaga gcttgtcatt gagcctggca 420
atthagcaaa ctgatgctga ggatgattga ggtgggtcta cctcatctct gaaaattctg 480
gaaggaatgg aggagtctca acatgtgttt ctgacacaag atccgtgggt tgtactcaaa 540
gcccagaatc cccaagtgcc tgcttttgat gatgtctaca gaaaatgctg gctgagctga 600
acacatttgc ccaattccag gtgtgcacag aaaaccgaga atattcaaaa ttccaaattt 660
ttttcttagg agcaagaaga aaatgtggcc ctaaaggggg ttagttgagg ggtagggggg 720
agtgaggatc ttgatttgga tctcttttta tttaaatgtg aatttcaact tttgacaatc 780
aaagaaaaga cttttgttga aatagcttta ctgtttctca agtgttttgg agaaaaaaat 840
caaccctgca atcacttttt ggaattgtct tgatttttct gcagttcaag ctatatcgaa 900
tatagtctct tgtagagaat gtcactgtag ttttgagtgt atacatgtgt ggggtgctgat 960
aattgtgtat tttctttggg ggtggaaaag gaaaacaatt caagctgaga aaagtattct 1020
caaagatgca tttttataaa ttttattaaa caattttgtt aaacccaaaa aaaaaaaaaa 1080
aaaaaaaaa                               1087

```

<210> 362

<211> 2273



243

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 362

```
ggcacgaggg agtgtccgct gtgcctgggt cggetgccgc ctgagcgggc cccgcgcctc 60
ctcagctgtc cgcaccgctc gtgccgggac tgcctccgcc actacctgcg cctggagata 120
agcgagagca gggtgcccat cagctgcccc gagtgcagcg agcgactcaa cccgcacgac 180
atccgcttgc tgctcgccga cccgccgctt atgcacaagt acgaggagtt catgctgcgc 240
cgctacctag cctcggaccc cgactgccgc tggtgcccg ccccgactg cggttatgct 300
gttattgcct atggctgtgc cagctgcccc aagctaactt gtgagaggga aggttgccag 360
actgagttct gctaccactg caagcagata tggcatccaa atcagacatg cgatatggcc 420
cgtcaacaga gggcccagac ttacagagtt cggaccaaac acacttcagg tctcagttat 480
gggcaagaat ctggaccaga tgacatcaag ccatgccac gatgcagtgc atacattatc 540
aagatgaatg atggaagctg taatcacatg acctgtgcag tgtgtggctg tgaattctgt 600
tggctttgta tgaagagat ctacagactt cattacctca gcccctctgg ctgtacattc 660
tggggcaaga agccatggag ccgtaagaag aaaattcttt ggcagctggg cacgttgatt 720
ggtgctccag tggggatttc tctcattgct ggcattgcca ttctgccaat ggtcattggc 780
attcctgttt atgttggaag gaagattcac agcaggtatg aggggaaggaa aacctccaaa 840
cacaagagga atttggctat cactggagga gtgactttgt cggtcattgc atccccagtt 900
attgctgcag ttagtgttgg tattggtgtc cccattatgc tggcatatgt ttatggggtt 960
gtgcccattt ctctttgtcg tggaggcggc tgtggagtta gcacagccaa cggaaaaggga 1020
gtgaaaattg aatttgatga agatgatggt ccaatcacag tggcagatgc ctggagagcc 1080
ctcaagaatc ccagcattgg ggaaagcagc attgaaggcc tgactagtgt attgagcact 1140
agtggaagcc ctacagatgg acttagtggt atgcaaggtc cttacagcga aacggccagc 1200
tttgagccc tctcaggggg cacgctgagt ggcggcattc tctccagtgg caagggaaa 1260
tatagcaggt tagaagttca agccgatgtc caaaaggaaa ttttcccaa agacacagcc 1320
agtcttggtg caattagtga caacgcaagc actcgtgcta tggccggttc cataatcagt 1380
tcctacaacc cacaggacag agaatgcaac aatatggaaa tccaagtgga cattgaagcc 1440
aaaccaagcc actatcagct ggtgagtgga agcagcacgg aggactcgct ccatgttcat 1500
gtcagatgg cagagaatga agaagaaggt agtgggtggc gaggcagtga agaggatccc 1560
ccctgcagac accaaagctg tgaacagaaa gactgcctgg ccagcaaacc ttgggacatc 1620
agcctggccc agcctgaaaag catccgcagt gacctagaga gttctgatgc acagtcagac 1680
gatgtgccag acatcacctc agatgagtgt ggctcccccc gctcccatac tgcagcctgc 1740
ccctcgaccc ccagagccca aggtgcaccg agcccaagtg cccatatgaa cctctctgcc 1800
ctagccgagg gacaaactgt cttgaagcca gaaggtggag aagccagagt atgaagtgga 1860
atgaatgtc ctgtttctgag aagcacactt gtaactgcat ctttttggaa tttttttttt 1920
ttttttccaa ggggtagaga tttatgtatt ttatttcaca gattctctgg tcacaggttt 1980
ttgcccaggg aaattctgag aaattcacaa ttctttacca gataaaacat gaaaagtgtt 2040
ccgttagttc ccctcccctc ccctccctct ttttagtttt aattttattg ttaaactgat 2100
ggcagcaatc catgaggtgt gtcaaagagt gtacatatgt atgtgtgtat attgaatgct 2160
aaacatatta ctgaaagaca cattttaata aagatttctg tcataattca aaaaaaaaaa 2220
aaaaaaaaaa aaaaaaaaaa aaaaaaaagg ggccgctcgc gatctagaac tag 2273
```

&lt;210&gt; 363

&lt;211&gt; 1848

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (976)

244

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1845)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 363

```

gattccccggg tcgaccacg cgtccgcgcg gaatctcagt tagcgggtgga gaggcagtat 60
gtccggttca atggcgactg cggaagctag cggcagcgat gggaaagggc aggaagtcga 120
gacctcagtc acctattacc ggttggagga ggtggcaaag cgcaactcct tgaagggaact 180
gtggcttgtg atccatgggc gagtctacga tgaccgccg ttcctcaacg agcaccctgg 240
aggagaagag gttctgctgg aacaagctgg tgtagatgca agtgaaagct ttgaagatgt 300
aggacactct tctgatgccg gagaaatgct aaagcagtag tacattggtg atatccatcc 360
gagtgcactt aaacctgaaa gtggttagcaa ggacccttca aaaaatgata catgcaaaaag 420
ttgctggggc tattggattt taccatcat aggcgctgtt ctcttaggtt tcctgtaccg 480
ctactacaca tcggaaagca aatcctcctg aggaggcctt gctgaagtta gaaagtgcac 540
ccactttggg gcgaaaacta gagacttgct tgggggctgc agaagtgcc tctcctcgaa 600
tcctgccagt tgcattcttc ccccttgagg ccaagacgat tggccagaca tcacctcaga 660
tctgagacca gcgtcttcca tctctcagag ccttactccc aaagtacctg ctactgttc 720
cgtgtgaac aattgccggt gtttcctctc ttcactgggt tccatgagta cccttatatt 780
tcacaacttt ctgttcataa gttatagtag cattgctctt tggtaaaaat gcctgctttc 840
caatactttg attgcatatt agacattctt aacagggcgg cagtctagtg ttgaaagtgt 900
tatttttcca tttttctttt aagtaaat tttttaaaaa attctgattt agggctaggt 960
gtgggtggctc aggcengtaa tcckggcact ttgggrggcc aaggtgggaa gatcgsttga 1020
ggccaagagt tcaagaccag cctgggcaac atagcgagac ccctatctgt attaaaaaaa 1080
aatctgattt aattctttta tttatcataa ggggtttaat tcctgaagta aaggtttgca 1140
cctattaaac ttaaaactgc caaatgattt ttgttctttt atgtgcgtga taaaaatata 1200
aagaatggtg tggccacctc ctccctttca agctagggca gcaggtagct cttcccagcc 1260
cctgagccca gccccttccc aagtggtgcc ggacaaaaaa ctacatggcc ctttcgtgtc 1320
ttgggggttg aaagggaggg atgaattggg gtgatagaac cctggtgaat tcagagtaat 1380
ctttcttttag aaaactggtg ttttctaaag aaacaggata ggagttttaga gaaggcacca 1440
aagctttcac tttggttttg caccagtttc taaccatctg ttttttctac cctagctatc 1500
ttttattggt aaaatataaa tgtataatta tgtttgtaga gctttaccaa ggagtttccc 1560
tccttttttg tttgttgatt agcaaatttt tgattctcca ttttccaaaa gtaagagact 1620
ccagcatggc cttctgtttg ccccgagtag aagtaacttc catataaaat ggtatttgaa 1680
agtgagagtt catgacaaca gaccgttttc catttcatct gtattttatc tccgtgactc 1740
caacttgtgg gtttggtctg tttttccatg agaataaaat actggcggtt tttttcaaaa 1800
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agggngga 1848

```

&lt;210&gt; 364

&lt;211&gt; 1808

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1808)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 364

245

```

ccccgggatcg acccaacgcgt ccgctttaca tatcatactt tgggggttaaa ggagattcct 60
cagactcatc cagcccttgg gtgctgacca gcagagtcac tagtggatgc tgaagttaca 120
tgagctacat gttaaataatt taaagtctcc aaaataaaac accccaacgt tgaccttacc 180
cggctgatgg ttagccccctt gctgcctgct ccatgtgtct tatgagagcc cgtagttaca 240
gtgtcctcta atttgaaatc cataagttaa caagtctata tcaggtgcag ctggcttttga 300
ttaaaggcca tttttaaaac ttaaaaactc aacacctcac agattataat agaaaaagaa 360
atggcctcag tttgatctcg ttcagaatga ccagattgtt ttctgctttg ggtgcagctg 420
tttagttcag agttatatta cagagaatta tttcttgaga taatcttaaa ctagaatgtt 480
caaaactaat tgataattga agtatcaaga tacgtagaac acctcagaga tttttcttca 540
ggaacttcca caaactttga atccttgat ctttatttgg tattcatact actagtagca 600
aaatacaggt tttttgtttt gttttgtttg tggcttcata gagtatctca aattgaaact 660
tttctgcaca aagaataaaa ttaaggattt tataaactca aattggcacc tactgaatta 720
aaatacataa aatcatttta atataattca gcatatggga agtaacattg cactaatatg 780
gaaatcactg ccagagacag tctattttct tttaatgtt tactacttag tcacaaacct 840
cacattatc cagtttggaa ttacttatta aggagaattg gaaatacata tgcccatgct 900
taaattttat agctttaatt tgtgttattt ctttattgac gggaagaggt acatcttttt 960
ttccttactg aaaacaaata tggattaatt gcctcaaatt tgtataagtg attggctagt 1020
gattcttgtt ttcagaaggg agagtgggat agatagaaaa tgacaaagat ggcaatatac 1080
acttaatgtt gttattgtat gttgttactg aagtacttag atttttaaaa tttcaaatcc 1140
taaatcactt ctgtaggag ggttttcatt aactgcagta tatacagttc actacatatg 1200
ggttgtttga gttttttgtg tgctgtattt ctttctgttt tttaatacct ggttttgtac 1260
atatctaact ctgttctctt ttgggtgttc agaaactgga tttttttttt cttagcagt 1320
gcttaatttg tgttttttta ttttgattca gaagtagtcc cagctcatag gtgttcatac 1380
tgttacatcc agaacatttg tcaggctctc tgtcagcttt catgtacata tggtagaa 1440
acctggagt taggcacttc ctggattttt ttttatgag aaaaatactg tatttaaaat 1500
gtaaaataaa cttttaaaaa gcaggcacta atatatattt cttccagcct ttgattacaa 1560
atltgtcctt gcacatgtta agatgaatta tctcctaaaa atatcattgt tcttgggagc 1620
agtgtatgtt actttacata gcagcgggtc ctgtcatgtg ttcatgtcag aatatttttg 1680
gttttaaact ttcttattgc ctttggctgt tgattagtac agtacaagtg cgatttcaaa 1740
aagatcttga aagtaataa tttaatcaat taaaatgttt atctgtaaaa aaaaaaaaaa 1800
aaaaaaaaa

```

&lt;210&gt; 365

&lt;211&gt; 1280

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 365

```

ctggaaggaa gacgaaccta cgaagcagag tgccaagccc ccagcacaga cgttgagtgg 60
aatggaatag actctttgct gggctgcttg aggaacagag gcagagatct gaagacagca 120
tgtacacagc cattccccag agtggctctc cattcccagg ctcagtgcag gatccaggcc 180
tgcattgtgt gcgggtggag aagctgaagc cgggtgcctgt ggcgcaagag aaccagggcg 240
tcttcttctc gggggactcc taactagtgc tgcacaatgg ccagaaagag gtttcccatc 300
tgcacctcaa cacrtgctg ggagagcggc ctgtgcagca ccgagaggtg magggcaatg 360
agtctgacct cttcatgagc tacttccac ggggcctcaa gtaccaggaa ggtggtgtgg 420
agtcagcatt tcacaagacc tccacaggag cccagctgc catcaagaaa ctctaccagg 480
tgaaggggaa gaagaacatc cgtgccaccg agcgggcact gaactgggac agcttcaaca 540
ctggggactg cttcatcctg gacctgggac agaactctt cgcctggtgt ggtggaaagt 600
ccaacatcct ggaacgcaac aaggcagagg acctggccct ggccatccgg gacagtgagc 660
gacagggcaa ggcccagggt gagattgtca ctgatgggga ggagcctgct gagatgatcc 720
aggtcctggg ccccaagcct gctctgaagg agggcaacct tgaggaagac ctcacagctg 780

```

## 246

```

acaaggcaaa tgcccaggcc gcagctctgt ataaggtctc tgatgccact ggacagatga 840
acctgaccaa ggtggctgac tccagcccat ttgcccttga actgctgata tctgatgact 900
gctttgtgct ggacaacggg ctctgtggca agatctatat ctggaagggg cgaaaagcga 960
atgagaagga gcggcaggca gccctgcagg tggccgaggg cttcatctcg cgcattgcagt 1020
acgccccgaa cactcagggt gagattctgc ctccagggccr tgagagtccc atcttcaagc 1080
aatttttcaa ggactggaaa tgagggtggg cgtcttcctg ccccatgctc ccctgcccc 1140
caccacctgc ctgcttgctt ctctggctgc ctggctcagt cagaggtgcc ccctgcagat 1200
gttcaataaa ggagacaagt gctttcccaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1260
aaagaaaaaa aaaaaaaaaa

```

&lt;210&gt; 366

&lt;211&gt; 2138

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 366

```

gatttcaggg gaagattgat gctgcttatt ttgagaccag caaatacctg ttggatgttc 60
tcaataaaaa gtacagcttg ctggaccaca tgcaggcaat gaggcggtag ctgcttcttg 120
gtcaaggwga ctttataagg cacttaatgg acttgctaaa accagaactt gtccgtccag 180
ctacgacttt gtatcagcat aacttgactg gaattctaga aaccgctgtc agagccacca 240
acgcacagtt tgacagtcct gagatcctgc gaaggctgga cgtgcggctg ctggagggtc 300
ctccaggtga cactggatgg gatgtcttca gcctcgatta tcatgttgac ggaccaattg 360
caactgtgtt tactcgagaa tgtatgagcc actacctaag agtatttaac ttctcttgga 420
gggcgaagcg gatggaatac atcctcactg acatacggaa gggacacatg tgcaatgcaa 480
agctcctgag aaacatgccg gagttctccg ggggtgtgca ccagtgtcac attttggcct 540
ctgagatggg ccatttcatt catcagatgc agtattacat cacatttgag gtgcttgaat 600
gttcttggga tgagcttttg aacaaagtcc agcaggccca ggatttggat cacatcattg 660
ctgcacacga ggtgttctta gacaccatca tctcccgtg cctgctggac agtgactcca 720
gggcactttt aaatcaactt agagctgtgt ttgatcaaat tattgaactt cagaatgctc 780
aagatgcaat atacagagct gctctggaag aattgcagag acgattacag tttgaagaga 840
aaaagaaaac gcgtgaaatt gagggccagt ggggagtgac ggcagcagag gaagaggagg 900
aaaataagag gattggagaa tttaaagaat ctataccaaa aatgtgctca cagttgcgaa 960
tattgaccca tttctaccag ggtatcgtgc agcagttttt ggtgttactg acgaccagct 1020
ctgacgagag tcttcgggtt cttagcttca ggctggactt caacgagcat tacaaagcca 1080
gggagcccag gctccgctgt gtctctgggt accagggggc ggcgagctc ccacacgtga 1140
agctcgcggt cctcccaggg agctgcgggt gatgttcgtt gcactgctag acacgaaatt 1200
cccattgacg tcttcagga actgcatgct gcagggtgctc tgcccttccg cccacgagtg 1260
cgccatgttt cagcggaggc cgtgtgggag aagccacgtc gtgtttcaca tgtcggagtc 1320
gaatgcattt gtaaatccct aagtcaagta ggctggctgc actgttcaca tttgtctcta 1380
aaagtcttca tcgctaaaag ataccataat ttgctgaggg ttcttaagct ttctatgtta 1440
taatttatat ttgtcacttt aaaaaatcca tttcttttag aaaaaattag ggtgatagga 1500
tattcattag ttaagatggg aacgtcattg ctattttttt aacatcctct ttagaggtaa 1560
tttttgttaa cataaccaa aattaaattg aaacaaatg tcccaactaa gaaaatatat 1620
agagcatttt attttttttt agtgttgtta aatattaacc tctgtgagat cctttgtatc 1680
ttaatgcatt acctttacac atattttatc ttattttctc tcctttcaga gtttacattt 1740
ttatatttta ttactattt cagattttta aaatagtata gaaaaaagta ggagtgatag 1800
agaacaaaaa tactcttata cagtgaacc caaataccgc gaatgcatca gctaaagcag 1860
cgtgtaataa ggagtgayga gaaagttaat ggagtatttt attttcaaag ttcttgataa 1920
gcattggaaa gaaatcgaca tggataatga agatttccct tttccttgcc tattttttca 1980
ttgtaaatat ttatatacta ctgaccaaga tgttgggggt ggggggattg tttttgttaa 2040
aaatgtcatt atcaggtcac ataaatctgc ctttatgttg cataagttaa aatttagaaa 2100

```

247

attaaaaagca attatcttttc agatgcaaaa aaaaaaaa

2138

&lt;210&gt; 367

&lt;211&gt; 3179

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (475)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2488)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (3178)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (3179)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 367

gcttcccagt	gagatcccat	cgggacatgt	ttctagtget	cttcagttcc	tagcattccc	60
cggggagctg	cggaagcatt	ttctcatgga	cacactgtct	cttgtgaata	ggttccaggt	120
cagcccagga	gagccatagc	agctgctggg	gccaccgttc	agcaggggtg	agtgccctgc	180
ctgcagtcag	gaggcttgtg	cccgagctct	ggaacaaatc	atcacttagg	atacagcttc	240
cctggaaaga	aattaagtgt	caggactttt	agaccataag	ttgcttgaaa	gtcgagaatg	300
gcagacatag	ggttgtgggtg	ttgccagtc	actgcagggtg	ctccagcccc	cggcgcgggc	360
tgcgctgctg	tctttgaggg	tgtagcacia	gcagtagctc	gggccccctc	cctgtgcacc	420
ggagaccag	ccaggtccag	cgggtctgtc	catggtgccc	caccagcagc	atcgngctgg	480
gcagtgccgc	ctgcagagtc	atggagcctt	agttactgag	caggtgcacg	tggggggcct	540
ggaaggcccc	actgcattac	catgccagct	atrcacaccc	ccgtgccaga	ggactgcatg	600
tgacacggct	tgattacgtg	gcactcgctg	ctgcaaagca	aagtcagatg	tcattcatgga	660
aactcaagca	ccagtctttt	tctctgaatt	ggaatatagc	tgtaagaatg	tggtatgatt	720
ctgttcctaa	atgtgaattg	attattatgt	tgaacagggt	aaaaacccca	aaattttctt	780
gtcacgtgtt	cctgtgtctc	tttcgaagtg	tgtcacctta	ggtcactgtg	tggacacagc	840
aagggtggag	gacgctaact	tggcctttgc	agtgatgggtg	gggtgggaca	ggtgttctgg	900
ggcacgaggg	gccctgagaa	tcccctgcct	gggtgtgttt	cttctgatcc	tgtccctcac	960
gtctctgttt	tctccctttt	ctgtgctcca	gagcagccat	cagcagggac	cctttctacg	1020
aaatgctcgc	agcacggaaa	aagaaggctc	cctccacgaa	gcgacactga	gcgtgcagcc	1080
aagggtggtg	gtctgcgggg	gccttggagc	tcctgctctt	ctcccgccac	tccatggatg	1140
caactgctgc	gagcagagcg	tcctctgcca	ggccccgccc	tggattccta	gagactagct	1200
tcagcttttg	ctattttttt	taagtgggag	aagggtgggc	rgttatcact	ggggaagaga	1260
ggaccggcca	cctgtccagc	atgggtccca	gagccttcct	ctctcacagg	gcagagctct	1320
tgctggcagg	gcagcctcct	ggccagtttc	tctgctcagt	gttctggtag	cagagctcag	1380

248

```

agccaactgt ttacctcttg gttgtccccg tgaagaagcc ttcaaaccct gcaccataaa 1440
tacatgtgtc catatattat tatatgttaa gagaaaaagg tggaaaggaa gagaagccac 1500
atactataaa gatctatttt ttttttttta agagagaacg tagggctgtt cagggtgcatt 1560
ctgccctggc tgcgctgggg agcttctccc tggagaagag cacctggggc tgcggccaag 1620
gggcatcagc ctgggccccg ggcagggcct ggcctgcctc tcctgtgctg tgggagctcg 1680
ctgcctggtg cttgtctggg cgagatggac aggtgaggtc gaggacgcag agggcagagg 1740
cccagtgagg cctcagacgg cacagtcaga gtcggggggc tgccctggcc ggggtcgag 1800
tcggcagcag cgtgcagtcc ggcattctcc gcggatgctt ttccatccca agtgcctgcg 1860
gacgccgagg agaggagaga gctgactgga cgcttacgtt attttctcc ttcagaatcc 1920
aagttcttgt tgggctttta agtagaaagt cagcattttc cttgagctaa atacctaata 1980
acaaaaactg tgaggaaggt tatcgggaca gaggttccgg ataacctgtt tcattttggg 2040
ttttcttctt cttccccaga ctccagtcct cgttctagag gaaggagtag gacttccccg 2100
atccccgtag gcttcagctt tttctgcctc aaaaccagcc ctaactggac tactctggat 2160
gcattttgtg gtgggcccc tagaggggaa gatgggcctt tatctgctcc gtggggtgca 2220
ctggagttag gggggtggcc gggctgcctc tcgcatctct gtcttcccct gcaggcgctg 2280
tgtgagctgg ccctgcccct cctcattaca gtatgaagg agccgtgaca cgcagcattt 2340
tcctgcggtt ctctcaggga ctctcagggc agctcctgcc actccgccag ggccagcatg 2400
ccagtccagg cagagcaggt ggctggctgk ctggccgtct cgcgccgccc ctccacagga 2460
ccctggacca gggcggtgca gggcgcancc ctgaggaggc aggtggagga gctgcgggtt 2520
ttcacagggc cgcgtcgcca cggctcctct gatccttttag ggttggcgag catctctgga 2580
aatagctttt gcagaggagt ggtgggagga atagaggggg acagtctgtc acctccctcc 2640
ccgccacttt gtgtagatcc tacctggagg gaatggcttt aggcactttt gtgccagagc 2700
ttgtgagggt gacagaagag ggtccaggct ggaaacctga actttctggg tgggagaacc 2760
aggtgggtgcc tgccgaggtc tgggcgtgtt tgggccggtg ctggagcctg tccagctggc 2820
ccgggcccctg gcctggttct caagtgttct ctagacagag aggcacctgg gtcagtatta 2880
gtctatttat cagaggtgta aataatctat gtatagtttt tctcctttta gattattttg 2940
tatttgttta aaagaagttt tgtcaaaata caaaaatata aagaaatgac tgaaagttgt 3000
tgacagggtt ttaagaaat aattattcta attgtttttg tttgtttgtt tttgccttgt 3060
aaactagcgc caaggaactg cagcaaataa actccaactc tgcccaagcm aaaaaaaaaa 3120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaann 3179

```

&lt;210&gt; 368

&lt;211&gt; 1826

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1799)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 368

```

tccccggggc tgcaggaatt cggcacgagg tggattcttg tccatagtgc atctgcttta 60
agaattaacg aaagcagtgt caagacagta aggattcaaa ccatttgcca aaaaatgagtc 120
taagtgcatt tactctcttc ctggcattga ttggtggtac cagtggccag tactatgatt 180
atgattttcc cctatcaatt tatgggcaat catcaccaaa ctgtgcacca gaatgtaact 240
gccctgaaag ctacccaagt gccatgtact gtgatgagct gaaattgaaa agtgtacca 300
tggtgcctcc tggaatcaag tatctttacc ttaggaataa ccagattgac catattgatg 360
aaaaggcctt tgagaatgta actgatctgc agtggctcat tctagatcac aaccttctag 420
aaaactccaa gataaaaggg agagttttct ctaaatgaa acaactgaag aagctgcata 480
taaaccacaa caacctgaca gagtctgtgg gcccaacttc caaatctctg gaggatctgc 540

```

249

```
agcttactca taacaagatc acaaagctgg gctcttttga aggattggta aacctgacct 600
tcatccatct ccagcacaat cggctgaaag aggatgctgt ttcagctgct tttaaaggctc 660
ttaaatcact cgaatacctt gacttgagct tcaatcagat agccagactg ccttctggctc 720
tccctgtctc tcttctaact ctctacttag acaacaataa gatcagcaac atccctgatg 780
agtatttcaa gcgtttttaat gcattgcagt atctgcggtt atctcacaac gaactggctg 840
atagtgggaat acctgggaat tctttcaatg tgtcatccct gggtgagctg gatctgtcct 900
ataacaagct taaaaacata ccaactgtca atgaaaacct tgaaaactat tacctggagg 960
tcaatcaact tgagaagttt gacataaaga gcttctgcaa gatcctgggg ccattatcct 1020
actccaagat caagcatttg cgtttggatg gcaatcgcat ctcagaaacc agtcttccac 1080
cggatatgta tgaatgtcta cgtgttgcta acgaagtcac tcttaattaa tatctgtatc 1140
ctggaacaat attttatggg tatgttttct tgtgtgtcag ttttcatagt atccatattt 1200
tattactgtt tattacttcc atgaatttta aaatctgagg gaaatgtttt gtaaacattt 1260
atttttttta aagaaaagat gaaaggcagg cctatttcat cacaagaaca cacacatata 1320
cacgaataga catcaaaactc aatgctttat ttgtaaattt agtggtttttt tatttctact 1380
gtcaaattgat gtgcaaaaacc ttttactggg tgcattggaaa tcagccaagt tttataatcc 1440
ttaaatctta atgttctctc aagcttggat taaatacata tggatgttac tctcttgcat 1500
caaattatct tgatacatct aaatttgtct gggttaaaaaa taggtggttag atattgaggc 1560
caagaatatt gcaaaaataca tgaagcttca tgcacttaaa gaagtatttt tagaataaga 1620
atgtgcatac ttacctagtg aaacttttct agaattattt ttcactctaa gtcattgtatg 1680
tttctctttg attatttgca tgttatgttt aataagctac tagcaaaaata aaacatagca 1740
aatggcaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaanc 1800
ccccgggggg gggccccccc cccctt                                     1826
```

&lt;210&gt; 369

&lt;211&gt; 839

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (112)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (179)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (809)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (829)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (831)

250

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (837)

<223> n equals a,t,g, or c

<400> 369

```
tagtcatgga ggatttgga tgacttgacc acagggttag accaaggctg agaagaacag 60
aagggagaaa ttaatggcaa aacaaaaaat acacaaatct gcggttttgg anttaatgaa 120
acaagattca tctattttaa gaaatgttgg tgttctaata caaagcatta ttttcactna 180
gagaaaatta cttacttgct cccttctgta ttgtaatat ttgtattaag acatgattta 240
aaatgtcttt ctacccttat ctccctctaaa ctgcaactra agttcaattc ttcacatta 300
gtattttaac tctggcaaag gttatagaaa gaaaaatggr aatatggtag gcctgtggta 360
ttcttaaaag ctaagtcatt agaactatgc agatcccca gtttaaaagt acaawtacag 420
caccagtagt tagctttcta gctgggggag aagacaggag atttttcttc cacagatggt 480
tattttgctt cctgataggt actgcagcaa agccatgttg atgtgtagat gcatgacttc 540
ctcactaagc tgctgcacac cagctttgcc tgcatgattc aaatttggtc ctcagtataa 600
ttataaatta ttgcatgtca taccttgaat aatggaaacg gcaaacatta aacctgtgat 660
tacccataat gtactttaat aataaaaaac atggcagcca ggtgcagtag agtgcacctg 720
tggtcaggag gctgaagtgg gaagattgct tcaacctgtg agtttgagtc ccgcctggtc 780
aacagcgaga ccccatgtgt ctgctgctnt ctcttttttt aaaggacana ngcttanct 839
```

<210> 370

<211> 2315

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1259)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1261)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1299)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2300)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2304)



<223> n equals a,t,g, or c

<400> 370

```

tcagcactca aaaagttttg gattttgggg tatttcagat tttagatttt tgtatgagga 60
atgttcaacc tgtatttgaa caagcattac caaatatcat tgaatattaa tatcttttgc 120
gtaaaaactg ctattatcag catcatagtt tctctaaaaa gaaaacttgg ggatcatagc 180
cgatagagag acttgctaaa atataaatca gcctctgcaa aactgtttac atattttattg 240
gtttacatat tttattgggt tatttctatc ccctgttcac ttttctctt ccacttccaa 300
ttatgaagag aaaatatttg ttcagggttg tcccccgcc ccccgctact gcataatttc 360
tcctcttaca agctgctttt ggctttcatt aataacagct tccttttaga aggtctgata 420
aggrratttta aggaagraga gratgactct gttattaaag gtggctggrg actgtggrgg 480
gatatttttt waagcactac tcatatcctt taactaaatt ttgccaagcc sgasacaaca 540
ttaaggagaa attgtacctt aagttagtaa ttccaaatct atctgagttg tatacccatc 600
aaagacaata cagttattaa catagatgaa ggtatgctat aggcattcatt cattatctct 660
atattgaata ggtgaaagat aactgtagtc aggtgaaagg cattcattat ttttaagctg 720
aaaaggggat ccttgaaaac actgaaaacc tctacaacaa tcttcaggaa gcctgctatc 780
ttgggattca ctaataatag gccagaaca aaggcaagca tccattcctc actccaccac 840
ttttctatct cagtgggtgt crtgtctacg atgaagactt tggaaatttc ctttctcttt 900
taggacaggg tcaggattta ggactcatag cctgaaagct cattacatac tccttgtaac 960
catcagtcca aggttcagtt cactaaagtg catgttctaa aacaagagct atcctcattc 1020
caaattttaa aatatgtact ctggtcgggt gcagtggtc acgcctgtaa tccagcact 1080
ttggcaggcc gagatgggcg gatcttttga ggtcaggagt ttgagaccag cctggccaac 1140
atggtgaaac cccgtctcta ctaaaaatac aaaaattagc caggcatggt ggcatttgcc 1200
tgtaatccca agctactcgg gaggtgagg caggagaatc acttgaacct gggaggcana 1260
ngtttgcagt gagctgagat tacaccactt gcacttcanc ctgggtgaca gagtgagact 1320
ycatctcaaa aactgaaaat aaaaataaaa atatgtattc tcctaactga aatatttact 1380
taatctggaa aacaatgtaa ctatttttaa agtggttaca tctattcttg ctgaagaaca 1440
ataaacagaa ttttttgact aagcataacc aaatttcaga acagtcta atgccaag 1500
tatccaaggc aaactcta atccatccat tgtgcaaac cacaagcacg caagtattaa 1560
ataagagcaa gctgtcctga gccatacct aatgaatttg tgtcttaaat attgtacatt 1620
gtgtttgagg cttgtcaaaa ctgggattat ggcaagaaag gttgcctaac tcataccttt 1680
ctgcctcaaa ttccagggtc taaaggctaa tggcatttta aacatcttac atttttaaaa 1740
atztatattg cctctgcca acaggcctaa tagttaaaag caagttgaga caaaccaggc 1800
agattcagtg tgtggaacag gaaggatgtg ctttaaaaaa aggtggaatc cctcaaaaaa 1860
ttctataggg agacagcagc cttaatctac ataattcttc atctcgcca ttccagccgca 1920
gcctttaaaag agtttagtgt aatggctttc tggtttgaaa acaaaaatgc atctatgttg 1980
ttgaaagttt gggaggagat tcaccaatat ctgaggagaa gatggagtga agggaattct 2040
tactttttgc tttatacctt tctataatat ttagattttt ttttactgta agtatggatc 2100
aaattgcaaa ataaagaaaa atgccaacct tagaaaagac aataaatgca caaaagatat 2160
aaacagggaac agcaaatatt tatatttttt ccattttgct cttttttaa atctatgttag 2220
aactttatat cttgggactt atgtatatat atacctttta aataaaataa attttctaaa 2280
taaaaagtta aaaaaaaaaa gggnggccgc cctag 2315

```

<210> 371

<211> 3007

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2984)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2988)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3002)

<223> n equals a,t,g, or c

<400> 371

```

gccactcccc catcgtgggg cagctgcggc tgagggctgt ggctttggca gctgcgacgg 60
ggagcggcgg agaccgcctc tgctcccgcc tggggttgct gcttttgctc agaggacatc 120
catgacccta atggtctttt tgttcaagat aaagtgattt tttgcctttg ttgattaact 180
ggrcaaattm agcatgtaga gcratgaag tacaggacaa taaagcttcc tacacatatc 240
accaggagga tctctttgaa agattcactg caggactacc agagagaata atttgtctga 300
agcatcatgt gttgaaacaa cagaagtcta ttcacctgtg cactaactag aaacagagtt 360
acaatgtttt caattctttg agctccagga ctycagggaa gtgagttgaa aatctgaaaa 420
tgcggccatg gactggttcc tggcgttgga wtatgctcat tctttttgcc tgggggacct 480
tgctgtttta tataggtggt cacttggtac gagataatga ccatcctgat cactctagcc 540
gagaactgtc caagattctg gcaaagcttg aacgcttaaa acagcagaat gaagacttga 600
ggcgaatggc cgaaatctct ccggatacca gaaggcccta ttgatcaggg gccagctata 660
ggaagagtac gcgtttttaga agagcagctt gttaaggcca aagaacagat tgaaaattac 720
aagaaacaga ccagaaatgg tctggggaag gatcatgaaa tcctgaggag gaggattgaa 780
aatggagcta aagagctctg gtttttcccta cagagtgaat tgaagaaatt aaagaactta 840
gaaggaaatg aactccaaag acatgcagat gaatttcttt tggatttagg acatcatgaa 900
aggtctataa tgacggatct atactacctc agtcagacag atggagcagg tgattggcgg 960
gaaaaagagg ccaaagatct gacagaactg gttcagcgga gaataacata tcttcagaat 1020
cccaaggact gcagcaaagc caaaaagctg gtgtgtaata tcaacaaagg ctgtggctat 1080
ggctgtcagc tccatcatgt ggtctactgc ttcattgatt catatggcac ccagcgaaca 1140
ctcatcttgg aatctcagaa ttggcgctat gctactgggt gatgggagac tgtatttagg 1200
cctgtaagtg agacatgcac agacagatct ggcattctcca ctggacactg gtcagggtgaa 1260
gtgaaggaca aaaatgttca agtggctcag cttcccatg tagacagtct tcatccccgt 1320
cctccatatt tacccttggc tgtaccagaa gacctcgcag atcgacttgt acgagtgcac 1380
ggtgaccctg cagtgtggtg ggtgtctcag tttgtcaaat acttgatccg cccacagcct 1440
tggctagaaa aagaaataga agaagccacc aagaagcttg gcttcaaaca tccagttatt 1500
ggagtccatg tcagacgcac agacaaagtg ggaacagaag ctgccttcca tcccattgaa 1560
gagtacatgg tgcatgttga agaacatttt cagcttcttg cacgcagaat gcaagtggac 1620
aaaaaaagag tgtatttggc cacagatgac ctttctttat taaaggaggc aaaaacaaag 1680
taccccaatt atgaatttat tagtgataac tctatttctt ggtcagctgg actgcacaat 1740
cgatacacag aaaattcact tcgtggagtg atcctggata tacattttct ctctcaggca 1800
gacttcttag tgtgtacttt ttcattcccag gtctgtcgag ttgcttatga aattatgcaa 1860
acactacatc ctgatgcctc tgcaaacttc cattcttttag atgacatcta ctattttggg 1920
ggccagaatg cccacaatca aattgccatt tatgtccacc aaccccgaa tgcagatgaa 1980
attcccatgg aacctggaga tatcattggt gtggctggaa atcattggga tggctattct 2040
aaaggtgtca acaggaaatt gggaaggacg ggcctatatc cctcctacaa agttcgagag 2100
aagatagaaa cgggtcaagta cccacatat cctgaggctg agaaataaag ctcagatgga 2160
agagataaac gaccaaactc agttcgacca aactcagttc aaaccatttc agccaaactg 2220
tagatgaaga gggctctgat ctaacaaaat aaggttatat gagtagatac tctcagcacc 2280

```

## 253

```

aagagcagct gggaactgac ataggcttca attggtggaa ttcctcttta acaagggctg 2340
caatgccctc atacccatgc acagtacaat aatgtactca catataacat gcaaacaggt 2400
tgttttctac tttgcccctt tcagtatgtc ccataaagac aaactgccc atattgtgta 2460
atttaagtga cacagacatt ttgtgtgaga cttaaaacat ggtgcctata tctgagagac 2520
ctgtgtgaac tattgagaag atcggaacag ctcccttactc tgaggaagtt gattcttatt 2580
tgatggtggt attgtgacca ctgaattcac tccagtcaac agattcagaa tgagaatgga 2640
cgtttggttt ttttttggtt ttgtttttgt tttttccctt ataaggttgt ctgttttttt 2700
ttttttaaat aattgcatca gttcattgac ctcatcatta ataagtgaag aatacatcag 2760
aaaataaaat attcactctc cattagaaaa ttttgtaaaa caatgccatg aacaaattct 2820
ttagtactca atgtttctgg acattctctt tgataacaaa aaataaattt taaaaaggaa 2880
ttttgtaaag tttctagaat tttatatcat tggatgatat gttgatcagc cttatgtgga 2940
agaactgtga taaaaagagg agctttttag tttttcagct tatntacntt gttttttgtc 3000
cnggttc 3007

```

&lt;210&gt; 372

&lt;211&gt; 752

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (521)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 372

```

gttgacttgt actgaagggtg attttaaat taagtatgta gtgtttgaat ttcttccatc 60
catgtcgttt taatgagatg tttccatgtc agctccttta cagccttggc tccyggctta 120
cagatttttg aatagttggt tgcttgccag ttgttttaca tctttcattg gccacaaaa 180
tattagccat ttgagatgag atgagactac ttgttgtagc ttcattcttc atttaatttt 240
ctggcgtaaa ttaacatttt aatttcatat atatctgtaa agagtctacc caaaggcttc 300
acggaaattt gcaaaatgaa ctaattccct ttttaagcagc aggtgtgcct gtttttgact 360
tttcagtaaa tatgttgttt gtgcacatat ctacatgggtg gagaccatat tcattatttc 420
atcttccaaa taatgggaaa aatataaaaag tgaatcagtg tgctttggga attcagtga 480
atcatgttaa ctcatataga gggggcctta gtttatctct nctttactga attaattagt 540
tttggaattt cttttaccat taaaaaaaat taaggaccat acagagaatg atttaagaaa 600
aaacaagtca cttaaaaatc atcacctatt tataaactgt attaattaca cataatgctt 660
attgattcaa tgagggtttct cttaaagactt ctgcttaata aatatggctg gacttcattt 720
aaattagttt aggactattg tagggatggg ag 752

```

&lt;210&gt; 373

&lt;211&gt; 712

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (11)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

254

<222> (560)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (638)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (682)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (683)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (708)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (711)  
 <223> n equals a,t,g, or c

<400> 373  
 gagagcctat ntcctagttt ctcccaatgt tatattttaat tttaaaaaat tgatatgaaa 60  
 atgtctaata tatagtaata atttatgaca gatctagtca tttcttccta ttaaaaaaga 120  
 ttaccttata tccagtagga aatggaattt tatgggcctt taaaagaaag ttttatgaaa 180  
 cttgatgcta taattttatt ggtatttcaa ggggaaaaaa gcactggggt tcaaaaatgg 240  
 tagcagaact gctttgaaat gctgcaagggt ggccactaga tgatgcaaaa tacaaccaaa 300  
 agattgactg agaataaaat taggtgacaa gggtttttaa agaataacct tttaaagtgt 360  
 gggggcaggg gttgcttttt tttattttat tttaaagtcaa ttatatttta catcttacat 420  
 ttctaaaagc atttttataat tatttttagt aagatttttc ttaaaatttc atatactggt 480  
 ttctacaatt tatatttgaa atttctcagt gttatgtaaa gagtgatgga aaagcattga 540  
 tttcttttaa accgtaatgn ttttagaact taagcctata gggcctttct tacaatggtg 600  
 atgtacccat tatcttagaa aatctagttt aaacctgntt tctttcccg caaaagaatt 660  
 aaatggggaa aatccatttg gnnatcctct taagtatttc ctaattangt ng 712

<210> 374  
 <211> 1807  
 <212> DNA  
 <213> Homo sapiens

<400> 374  
 ggcacgagtt atggattacc tagatatcgg tggcttactc atgcttgga tttttttcag 60  
 agagagttta agtgctgtgg agtagtatat ttactgact ggttggaat gacagagatg 120  
 gactggcccc cagattcctg ctgtgttaga gaattcccag gatgttcaa acaggccac 180

255

```

caggaagatc tcagtgcacct ttatcaagag ggttgtggga agaaaatgta ttcctttttg 240
agaggaacca aacaactgca ggtgctgagg tttctgggaa tctccattgg ggtgacacaa 300
atcctggcca tgattctcac cactactctg ctctgggctc tgtattatga tagaaggag 360
cctgggacag accaaatgat gtccttgaag aatgacaact ctcagcacct gtcagtccc 420
tcagtagaac tgttgaaacc aagcctgtca agaactcttg aacacacatc catggcaaac 480
agctttaata cacactttga gatggaggag ttataaaaag aaatgtcaca gaagaaaacc 540
acaaacttgt tttattggac ttgtgaattt ttgagtacat actatgtgtt tcagaaatat 600
gtagaaataa aaatgttgcc ataaaataac acctaagcat atactattct atgctttaaa 660
atgaggatgg aaaagtttca tgtcataagt caccacctgg acaataattg atgcccttaa 720
aatgctgaag acagatgtca taccactgtg gtagcctgtg tatgactttt actgaacaca 780
gttatgtttt gaggcagcat ggtttgatta gcatttccgc atccatgcaa acgagtcaca 840
tatggtggga ctggagccat agtaaagggt gatttacttc taccaactag tatataaagt 900
actaattaaa tgctaacata ggaagttaga aaataactaat aacttttatt actcagcat 960
ctattcttct gatgctaaat aaattatata tcagaaaact ttcaatattg gtgactacct 1020
aaatgtgatt tttgctggtt actaaaatat tcttaccact taaaagagca agctaacaca 1080
ttgtcttaag ctgatcaggg attttttgta tataagtctg tgttaaatct gtataattca 1140
gtcgatttca gttctgataa tgttaagaat aaccattatg aaaaggaaaa tttgtcctgt 1200
atagcatcat ttttttagc ctttctgtt aataaagctt tactattctg tcctgggctt 1260
atattacaca tataactgtt atttaaatac ttaaccacta attttgaaaa ttaccagtgt 1320
gatacatagg aatcattatt cagaatgtag tctggtcttt aggaagtatt aataagaaaa 1380
tttgacata acttagttga ttcagaaagg acttgatgc tgtttttctc ccaaataag 1440
actctttttg aactaaaca ctttttaaaa agcttatctt tgccttctcc aaacaagaag 1500
caatagtctc caagtcaata taaattctac agaaaatagt gttctttttc tccagaaaaa 1560
tgcttgtag aatcattaaa acatgtgaca atttagagat tctttgtttt atttactga 1620
ttaataact gtggcaaatt acacagatta ttaaattttt ttacaagagt atagtatatt 1680
tatttgaaat gggaaaagtg cattttactg tattttgtgt attttgttta tttctcagaa 1740
tatggaaaga aaattaaaat gtgtcaataa atattttcta gagagtaaaa aaaaaaaaaa 1800
aaaaaaaaa

```

&lt;210&gt; 375

&lt;211&gt; 1815

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (201)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 375

```

gagatcaccc gctaccact gctcatcaga agtattctgg agaacacccc ggagagccat 60
gcagaccatt cctccctaaa gctggccctc gagcgggcag aggagctgtg ctctcaagtg 120
aatgagggag ttcgggagaa ggaaaactcg gaccgactgg agtggatcca ggcgcacgtg 180
cagtgtgaag gcctcgcgga naacttattt tcaactctct caccaactgc ctggggcccc 240
ggaagctctt acacagtggg aaattatata agaccaagag caacaaggaa ctgcacggat 300
tcctcttcaa tgacttcttg cttcttacct acatggtcaa gcagtttgtt gtttctcttg 360
gctctgagaa acttttcagc tcgaagtcca atgctcaatt caaaatgtat aaaacgcccc 420
ttttcttgaa tgaagtcttg gtgaactgcc cacagacct tccagcgatg agcctgtctt 480
ccacatttcc cacattgatc gggctctacac cctccgaaca gacaacatta atgagaggac 540
cacctgggtg cagaagatca aggcggcgtc tgagcagtac atcgacaccg agaagaagaa 600
gcgtgagaaa gcttaccaag cccgctccca aaagacttca ggcattgggc gcctgatggt 660

```

## 256

```

gcatgtcatt gaagctacag aattaaaagc ctgcaaacca aatggaaaga gcaaccata 720
ctgtgaaatc agcatgggct cccagagcta caccaccagg accatccagg acacactcaa 780
tcccaagtgg aattttaact gccagttctt tattaaggat ctctaccaag acgtgctgtg 840
tctcaccctg tttagacagag accagttttc accagatgat ttcttgggtc gtactgaaat 900
tccagtggca aaaattcgaa cagaacagga aagcaaaggc cctatgacct gccgactgct 960
gctgcatgag gtccccaccg gggagggtctg ggtccgtttt gacctgcagc tttttgagca 1020
aaaaactctc ctgtaggggt tctaaaggac agcaccagcg ggacagccca caaggctggg 1080
gctggagaat gagagactgc gctctcttgg ggctgaggga gcaccatgca gcttcacccc 1140
tcacaaagcc atgcacgctg gggggtctgt ttctctgcac actaaatagc tagcaatcta 1200
tgcaaacacc tttcccataa agaaaccaa ccccatagta cagtgccttg tcctagtgtt 1260
cacatgttca gctctgtttg tttagatgcc aagggtttcca ttttcagggc tataaaaagt 1320
attacttggg aatgaggcat cagaccacca gatgttaccg ctcggttgaa tgtgtccacc 1380
gtggagtggg ttggtgacgc tgtaaccatt ccacgccagt gacctctgct gggtcacagc 1440
cactcaggag gggaagggtc aggatgagag ctgcagcctc gacacttgcg cggcctgata 1500
ctgaaatagc gtctactctg gcactgaata aaaacagaaa cttgatcatt ttattcctga 1560
ttagatttta tcaactctctg ctaagacaat atagtctgga gtataagtgg gaaagcttga 1620
tttaataact gtgaactcta ataattgtgga aaatatTTTT caactttaat tttctgaagt 1680
ataaattatt tatgtaaatt cattgttttt gcatatttct taggacatgc atctttaagc 1740
tttatcattg cccatatgta cagaaagaga ataaagacat atgtttatgg atggaamaaa 1800
aaaaaaaaa aaaaaa 1815

```

&lt;210&gt; 376

&lt;211&gt; 550

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (483)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 376

```

gtatccccag gaggtcaaca ggggcttcat ttttctgagg gactagaggg tcttgtggag 60
ctcctgggac agagatctag atccagagag aacattcgtc cttccgatct cagctcagct 120
ctgagagccc tcccagagag cagctcccga gggctccaga gcctccgaaa gccctcccag 180
agagcagccc ccacctccca ggctgtctgc acttctcctt gctatgcttt gctctgtaac 240
atTTTgcaac agtctgcagt acacgggggt tgTTaatctg agtattcatt gtttctcttg 300
ctgggagcgtg aacttgagga gggcagggat tttgtctgtt cactgctggr gyccagcac 360
ccaraatact taaatctgag ttggatgaat ggcggccagc cactgggatt ccagggtttt 420
gggccccctg ccataacata tggcccargg cargcgccac atgctgggtc agtccccarc 480
ctnctgtyca caratccttc tctgttctac tccygggctg tkctcttcca cctcaactc 540
ggttctcagg 550

```

&lt;210&gt; 377

&lt;211&gt; 3202

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2957)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3119)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3192)

<223> n equals a,t,g, or c

<400> 377

```
ctgctgaaga ccttgtgaga agatctgaga aagatactgc agctgttgtc tccagacagg 60
gcagctccct gaacctcttt gaagatgtgc agatcacaga accagaagct gagccagagt 120
ccaagtctga accgagacct ccaatttctt ctccgagggc tccccagacc agagctgtca 180
agccccgact tcactctgtg aagccaatga atgccacggc caccaagggt gctaactgca 240
gcttgggaaac tgccaccatc atcagtgaga acttgaacaa tgagggtcatg atgaagaaat 300
acagcccctc ggaccctgca tttgcatatg cgcagctgac ccacgatgag ctgattcagc 360
tggtcctcaa acagaaggaa acgataagca agaaggagtt ccagggtccgc gagctggaag 420
actacattga caacctgctt gtcagggtca tggaagaaac cccaatatc ctccgcatcc 480
cgactcagggt tggcaaaaaa gcaggaaaga tgtaaatacag cagaaaaaaa acaccgagac 540
gtttctgtga cttcactttc acctgctcca ggggtcaagg acttgccctg cctgataacc 600
agccagcagg ctccgaatca ccatctccct cacatgttat ccggcaagag tgaattctac 660
caatggaagc cagggttaatg attacaatta atcttttact gtacattccc aaggctttag 720
ttttaaatgc cactgtgcct ttaacaagggt tgtaaataatt ttatgccac cagagatgtg 780
gtcataagat ctgatctga gccagagatt cagatggcac aggaagtatt catgtatttt 840
aacactgggg ttttctttct ttcatactga gatttttttt cagtatgtat cctccagctc 900
ttaaagctta cctgagaaaag ctttaaatga gaaaaggacc atgcgattgg tgctgtgtta 960
catacacata ctttcttggc ttctgagtag ctccaggtgtg gcttttggct gcagatgtta 1020
aattttgata ccatgtaaac ctaccagct tctcagactt gggctctgtt ttttgatggg 1080
aacagagggtg tttagagaaa gcctctgagt atgcctttca gattttgaac aagcggcctt 1140
ttctaaacat cgacttctac tactctctag ccttaaaata ctttctgctt agatccaggg 1200
cccttctact ggagatagga aaagtagaat tcaggaatta aaagaattac tctttattca 1260
at ttgaggaa cttggtgaaa gcccctcctc ttatgacagc cagggttcctg ctggctagac 1320
cagcctatct agcgttttgc taggggattg ggtggtccac gcactcgcta atacagttct 1380
ccagggtgtg aatgatgtca atacgattgc ttggcctttt cccctgtgct ctttgcctcg 1440
tgctctgggt tcctcagcaa cactccttgt aaggggcaga gacagggtcc accaactccc 1500
caagatgaag aagccccttc aggccagtcg tggtggctca tgcctgtaat ccagcactt 1560
tgcaaggccg aggagggtg atcacttgag gtcaggagtt cgagaccagc ctgaccaaca 1620
tggcgaaacc ccactctctac taaaaatata aaaattagct tggcatgggt gtgcgtgcct 1680
gtaatcccag ctactcgga ggctggggca ggagaattgc ttgaacttgg gagatggagg 1740
ctgcagcgag ccaagatcgt gccactgcac tccagcctgg gcaagagttt ttttaagact 1800
cttaaaaaaa gagcctgggc aattttttta agactctgtc ttaaaaaaaa ctaaaagaa 1860
aaaaagaagc cccttctctc tacaggggac aggagaccat ggattggacc ccaaagggat 1920
tgaactgcat ctgcatgtct gtcctttgaa cactttctct ccctgcccac aaggaaacct 1980
aaattat ttg gggatactg gggaaattgt agtgaagggc ttaatgtagt taataaaagt 2040
taaaagtcag tagaaaacag gtgcctcagc cttcaaatgg ttgctttttt tccattttcc 2100
ctcatgaata gactcaccag cattttaccc ccttggtata aaactgtgca gagcaagaag 2160
atgatactta tttttgaatt tgtattttta aaactagatt tatagacttt tttttttttt 2220
aactagggca cttgcttctt tcttagctaa aagcaccagc tgagattttt caggtaattt 2280
```

259

```

ctatgaagtt gtttcatccg taagtacctt tgaaccacaga agcccccttt ctcatatggt 1440
tctcattcct gtttgcctt cagagttcag ctttagttgc taaaacattc agacatccct 1500
ctgacttaga tccccacta ctgtttttct gtgagaagca gctatgcata attcctcttc 1560
aacacagtag ttcttgaaat tttgcaggcc tctcctggaa aggaggaaat gacttctctg 1620
actttgtatg atgcttattt gtggatgaat gggcaaggga aaaaatgaag gaacaagtga 1680
atgaacagta tgggagtatg agaaaaggta taaattgggt atagttgaga aaaggattca 1740
aattgatctt tggttcgaga gacaatttca tctttctgat gaatttaaag tgtagtcttt 1800
gaaccagctg ggcttaatta tgtaaagttt tgagcctgag ataagcacac aatcacaaaa 1860
cctacccaaa caagtttttt gtttcacttc atctcttata aaacaatgtt cttaaagtaag 1920
tgatagggat gctcatcatt ctgctaccta ttatcacaaat gaaaacaatc ataaatagta 1980
cacaggaaag gtgagaaata gcggatagtt cttatttcat agtactgtat atggaaataa 2040
accaaatttg ctcatagaga tactatttta ttacctcaa aatatataaa aatgaaaacg 2100
ttatgaaaat attttaaaat gggatttaaa aataattgag aacatcacag caatttagaa 2160
tactaaagag catagcttta aaatgatagt gctgagaact cccacctct accccaccac 2220
ctgtaggctt ctttgacaac ttacaaatgt tctctagttt gtatctagaa tcacttatat 2280
ctttcaaata aaccaacttt gtgaacaaaa aaaaaaaaaa aaaagggcgg gccgctctag 2340
aggatccaag cttacgkaaa cgcgtgcatg cgacgtcata gctcttctat agtgtcacct 2400
a                                                                 2401

```

&lt;210&gt; 379

&lt;211&gt; 852

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 379

```

gcccacgctg cgaccacgc gtccgggtcg gtctgcctt gtcgccagct ccattttcct 60
ctctttctct tcccccttcc ttccgcgcca agagcgctc ccagcctcgt agggtggtca 120
cggagccctt gcgccttttc cttgctcggg tcctgcgtcc gcgcctgcc cgccatgaat 180
gaggagtacg acgtgatcgt gctgggcacc ggcctgacgg aatgtatcct gtcagggtata 240
atgtcagtga atggcaagaa agttcttcat atggatcgaa acccttacta cggaggagag 300
agtgcattca taacaccatt ggaagattta tacaaaagat ttaaaatacc aggatcacca 360
cccagtgcaa tggggagagg aagagactgg aatgttgact tgattcccaa gttccttatg 420
gctaattggtc agctgggtta gatgctgctt tatacagagg taactcgcta tctggatttt 480
aaagtgactg aaggagactt tgtctataag ggtggaaaaa tctacaaggt tccttcact 540
gaagcagaag ccctggcatc tagcctaata ggattgtttg aaaaacgtcg cttcaggaaa 600
ttcctagtgt atgttgccaa cttcgtatga aaagatccaa gaacttttga aggcattgat 660
cctaagaaga ccacaatgcg agatgtgtat aagaaatttg atttggttca agacgttata 720
gattttactg gtcattctct tgcactttac agaactgatg attacttaga tcaaccgtgt 780
tatgaaacca ttaatagaat taaactttac tactgtggaa agacaactgt ttaataaaaa 840
gatttacatt cc                                                                 852

```

&lt;210&gt; 380

&lt;211&gt; 2014

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 380

```

ggcatgttag tagacgactg aatatggaaa ggatatcgag ttatctattt tgttaatttt 60
atttttgttt tttatcatct agatttttat catggattag tctgaaattt aaagtctctg 120
ccagtcggtt ttctttcatc ttgtagtttt tacagtatct ccactgtgca tatgcaaaa 180
gggtattaca taactgtatc atatttggtt ttgataattt tttttttttt tgagacggag 240

```



## 260

```

tcttgcgtgtt gccaggctg gagtggagtg cgtgggtgtga tctcggtca ctgcaaactc 300
cgctcctggtg gttcaagcga ttctcctggc ccagcctyct gagtagctgg gattacaggt 360
gtgtgccacc rtgccagct aatttttgtg tttttagtag agacggggtt tcaccatgtt 420
ggccggctgg tcttgaactc ctgacctcag gctatatgcc cacttccacc tcccaaagtg 480
ctgggattac aggcatgagc cactgtgccc agcctgggtat tgataattta tattcagata 540
atattgttatg gctctttta atcccacaag gggctctaaa aagcaaacat tcaagagtat 600
gtagttttta gacattaagt taattatttt aaacagtgtg agcaaaacac aagtgattaa 660
atatagttta tttgttccaa tgactaaatt ttacctcatt tattaatctg gtcattaagg 720
aatatattta ataattattat gtaattattc tttttatgca tgatacacct agaaaaatgc 780
cttttgtttc tattgatggc tttgttgttt ggagctactt ttgattactt attgcagttt 840
cccaatttag tctttacttt atctaactca caaagtaaaa ttaactgatc acatggcaac 900
tactgtattt aaatagtctt ggaaaaatga aagtgtcttt tgctgcttgg taaatgggta 960
atgcccttga ttcttgact gtaggacata gctgatctaa agtactctgt cagttttacc 1020
ttcacccatg actgtcatta gttgtcaaag ttgaaaagta ctttagctgt gagaaatcct 1080
tgtatgtttt tattataaga ggtataatca tcctcaaagc ctgtttttat tacatgatgt 1140
ggactgatta ttttttctat cacagtgtta acagatggat tttattgtaa atacaaagaa 1200
aacatattga ttattgtagt attcttatgt cacctggcct tttgcgtgag attattttatt 1260
atctctagca aggttttctt cctttcttat tgcccagaga ctgactgata catcttttgt 1320
tatttttaca cataaattaa acatagcctt tttggacaaa ttcactaaat attaatgtat 1380
aaaatgtaat tgagtaaatt tttatcagaa ttttaaaaaa aaaagagctt agactcagta 1440
gaactcagta gaagcttcac tatttactcc agcgtgtgtg aattgtactt actctattct 1500
cagagtatat ttactgtcct taccattgat tctttccctt tgctaatttt tttttttgtt 1560
aatggtagct gcgacttttag gtgggggtata ttttcttctc ctaagagaat agacagtttt 1620
tccagattca tcatcattga ctgtcaagaa aggacccttc agcaaggctg taccctcaat 1680
gcagttgatg gcctgtcttc acggatttac agacttgccc tgatgcccac gtaaattcaa 1740
gctttggctt gtggttaaaa ccacaagaag acaagcatct gtggtgcgga ggcaagcagg 1800
ctaactagga gttgacaagc taagaaagtg aaactgttct ttcttagtta actgtctttc 1860
tctggagctc tgttattttg agtataatat ttccacgaca cttagtaaat gcaagctaaa 1920
atgtaataat aataaattgt attggagaaa cctaaaaaaa aaaaaaaaaa aaaaaaaaaa 1980
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa

```

&lt;210&gt; 381

&lt;211&gt; 565

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (557)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 381

```

nggggtgggg ggcctaattg gagaggtgtg ggtttsgcra gaaaraaaga aaattcccca 60
cttggaaga aagaggagga aactggatt ctwactttct ggatcttrac actgggctgc 120
aaaacctacc ttctctcttc ccgctccccc tcacctcaa ctctcaatgt cttgctgtca 180
tttctgtct cggtcccttc ctcccccttc ccccttcccc cccccacac cttcaccct 240

```

## 261

```

ctgtgtcctg gtccttctga gggccactgc agatgactct cctttgaaat gagaaaaaga 300
aaagaaagca agaacagaaa acgaagccac aggaagggaa gtagacattg tatgcttatg 360
gtttctcatt atgaaggtgc agcttgtagg aggtttgtac ggatgtgctt tgaagttatg 420
tatattacat ataacaggaa aaaatattaa aataaacagt gctggtaagt atgaagctga 480
cattctaaaa ttataattat ctgactgtga ttgatgtatc ctgaggttcc tagatcttac 540
tgaactggcc cagcttngga gacct                                     565

```

&lt;210&gt; 382

&lt;211&gt; 131

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 382

```

gtcgacccac gcgctccgcc acgcgtccgc ccacgcgtcc gccacgcgt ccgaaaaaaaa 60
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaggcgggcc g                                     131

```

&lt;210&gt; 383

&lt;211&gt; 2026

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2026)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 383

```

gggcgcgcgg cctcgaggcc ttccggtgcg ggagaaacta ctactcccat aatgccccgc 60
ggtcccggag cttgccagtc tcgtcgcgag aagcagcggc ccggggcgac tgagcggaca 120
aacggaagtg taggttacgg tctgagacat caccgccaag ctgggcatcg gggagatggc 180
cgagactgac cccaagaccg tgcaggacct cacctcgggt gtgcagacac tcctgcagca 240
gatgcaagat aaatttcaga ccatgtctga ccagatcatt gggagaattg atgatatgag 300
tagtcgcatt gatgatctgg aaaagaatat cgcggaacct atgacacagg ctggggtgga 360
agaactggaa agtgaaaaca agatacctgc caccgaaaag agttgaaggt tgctaataat 420
ttatactgga atctggcatt tttccaagcc aagagaagat cgaatggctt tttgcagcta 480
actactatgt gtagacaggt tttatattat aaagtatgca ttcttatcac ctagtatata 540
gttagtttgt agagtgattt ccccccagtt tcttgaacat ggtatcttca catcttgga 600
cttggtcagt tgtgctatct attattaaac actaaaactt tggcggttct tgcataacat 660
tgtcagatct tttagtgtat ttctgtgaag tcattttttt tcttgtcatt cctttttag 720
tagttgctgt ttggataaaa gttgatgtgt gattttttat taaacaaata gtaaacctt 780
caattatagt tagtcttggt gaagtaagat gttttagtag ttttagagttc ttaattctt 840
ggcacaacgt gactgttgag ctaacaccaa atagtgtgtt ggcaataact ttcaaatggc 900
tgaaaacacc taaaaattgt tcattcagaa atatctgtca ctgctctgtt gccaaaactc 960
agaatagaac ttagacgtat gtctgagtcc ctgagatcac atgctaaagt cgatgaaaag 1020
taaccactgc cactgtcttg tgtcagaact tttacagtac agaaaataac agaatagcct 1080
tctgtaatga ggcgtttgtt agagttttgc atgagattct aatacttcag taggacccta 1140
cctacgtggt tcatctacaa tggttaccat aaaaaatctg gcaggatctt aaaactcaat 1200
cagtctttcc tttgagctag tgacttgaaa agaaagagag aaggaaaaga gaccatatta 1260
agtccatgcc agttgcttgg ctagaatatg atcaacgact tgtagtagac tcaagttttt 1320
aaaaaacact attttactta aactgtttct tatctaaatt cttgcagagt gtcaatgtta 1380

```

## 262

```

tcattgatta tagaagacag ggataatacc tttatctctg gccactcaaa aatgcagtg 1440
caggagtgt aaacctagag gccaatactg atgacctgga aggtgatcca tatgattgtc 1500
accacaaagt gcttttacac aaaaacttga aaatttgaaa aacatgattt ttttaagttt 1560
ctcatctcac cagtcttggg rtttatattg caaatctatc aaagtaagaa ataatttggtg 1620
ctgtatacaa attacatggg gaacataaag gagtgagatc cttctgtgat aaaatgaatt 1680
caccactctg gttacccaac tacagaacct cctttgatca ggccagtagg ttgtgatgca 1740
ggctggagcc cccgaatgcc ccacacacac tgcagcattg accagaccat ccgaaacctg 1800
cgtccctggg gatgttctca agcctcggaa gtggcaaatg gaaatgatat ggccggttgc 1860
ggttgttaga gagttgtgac ttaggcagga gtcgacctcc tcaagtaatg gaacgatttc 1920
aaaggcaggc tgccctgacc aaaaatatct gccatgaata aagggtgcctg aaatcctgct 1980
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaan 2026

```

<210> 384

<211> 1346

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (249)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (251)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1334)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1342)

<223> n equals a,t,g, or c

<400> 384

```

tcgaccacgc gtccgcgcgc gcggcgccgc cgaggcgaag aaggaggagt gtgtgcggcg 60
gggccgcgcg ggtaaaggcg agaaggctgc aggagaccga gggggagccg ggccggtggg 120
gccgcgcgcg ccgccatgca ggaaatcatc gccagcgtgg accacatcaa gtttgacttg 180
gagatcgccg tggagcagca gctggggggcg cagccmctkc cscrgcagac acagcctcca 240
gcaaagcana naaccccgca ggtcatcggg gtcatgcaga gtcaaaacag cagcgcgggc 300
aaccggggac cccggccact ggagcaggtc acctgttaca agtgtggcga gaaaggacac 360
tacgccaaca gatgcaccaa agggcacttg gcctttctca gtggacagtg acagcagctg 420
gagccagctc cgagcagccc gggggccccc ctgttgggag tgtgcattta actgtttcat 480
gcgcttgttg gcgcgactgt ggctcgagct ggcccgcaga cactgtgggt tcatcactct 540
gagggggccac gtctgttagt ttcttatcat tttgccttag tattttttga aaaagggaca 600
tgtgtcctgt gggccctgc agtcgacatc atgtttggct gggcatcgat gcctcctttc 660
tgggactccc ggcacaactc ccctcatcca gggagggagg cagctgctgg ggaggggctt 720
ggctaggtag ttctgtgtgg cgggtggtcat tcccctcatt aaacaccagt tcttggtgac 780

```

263

```

gccaggggct ggtaggtcat tcaaagctgt ggccagctca cgcctgcttc ctccctccct 840
gccctgctga atcctaaagc tgtgcctata tctgtgattt gaatgagga gccctttggg 900
gcaaattcag gtgcccccat tgccctcaggc tggccctggt ccaggtggc agcggttgag 960
gaggggtaca gggctctcaa gcctgaggtt ttcttctctg ggcttaattt tctcttgggg 1020
tacgtgcctg acagtgttta aggtgtccgt tgaactggag ttgcagactt ttaaatagat 1080
gaccccttca gatcatctgt gcctacctcc tgcccatcag gcgtctacac tgctactcag 1140
acacctgtgg catgtggagg agactgccct gtcctgagcc tggaaaatgt gaaactgtct 1200
cctgcaacct gctgggcatg tgggcctggc tgtgttcaat tgcaagaaca atttttatga 1260
aatggattaa agcttgtttt ttaaaaaaaaa aaaaaaaaaa ytcggggggg gscctgtacc 1320
cattggccct tggngggggg tnttaa 1346

```

&lt;210&gt; 385

&lt;211&gt; 637

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (637)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 385

```

gccacgcgt tgcgccacgc gtccgccac gcgtccgaat ttcacgtttt tatgtaagca 60
tgaaacacag gcagtatgag agaaagcaag gcccgctcatg ctgtccgtac actacgtatg 120
ctgtagagcc attttgtatg ttgtgtaaaa caaaaagcat tgatgaaaaa gaaaaggtg 180
atgtatgtat atgagaaaaa taattgtacg atatcattcc agtacgtttt gttgtacatt 240
ttagtcttgt ttactttctc ttcattgtta agaggatgag aactgtacag tttccagcta 300
gttaccata ttagagaaga aataagagag tattagaaga aaacaggaga gaaagaacat 360
ttgtgaattg cagttgtcaa aaaaaaaaaa tagcctagct ggccttattt gtgaagcata 420
attgctttta gcataatggaa gtattttttc acattttctt tgtataaaat ttgtattaaa 480
cttaaatatc tttttgatgg tgggtgtttct ttgtgactga gccagtagac tcacactata 540
tgcttttttg gggttgcccg ttccttcccc cccccccca gttttttcag atttytttac 600
ctttttttta ttaaactgtt ttggaaaaaa aaaaaan 637

```

&lt;210&gt; 386

&lt;211&gt; 862

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (723)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (760)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

264

&lt;222&gt; (780)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (809)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 386

```

ggggcagttg cgcgggcgcg cgcgatccgg ctgacgcac tggccccggt tccccaaagac 60
cagagcgggg cgggagggga gggggaagag gcgagagcgc ggagggcgcg cgtgcgcatt 120
ggcgcgggga ggagcaggga tcttggcagc gggcgaggag gctgcgagcg agccgcgaac 180
cgagcgggcg gcgggcgcgc gcaccatggg ggagaaaccc gggaccagct caccgtgtac 240
ttgggcaagc gggacttcgt agatcacctg gacaaagtgg accctgtaga tggcgtggtg 300
cttgtggacc ctgactacct gaaggaccgc aaagtgtttg tgaccctcac ctgcgccttc 360
cgctatggcc gtgaagacct ggatgtgctg ggcttgcct tccgcaaaga cctgttcac 420
gccacctacc aggccttccc ccggtgccc aaccacccc ggccccccac ccgcctgcar 480
gaccggctgc tgaggaagct gggccagcat gccamccct tcttcttcac cataccccag 540
aatcttccat gctccgtcac actgcagcca gggccagagg atacaggaaa ggcctgcggs 600
gtrgactttg agwtcgagcc ttctgtrcta aatcactaga agagaaaagc cacaaaagga 660
actctgtgcg gctggtgatc cgaaagtgca ttgcgcccg agaaaaccgg gccccagctt 720
tanccgaaaa caaaaggcat tccttcatgt ctgaacggt cctggaactt cgaaggtttn 780
ccttggaaaa aggagctgta cttaccatng gggagccct tcaatggtaa aatgttccaa 840
gttaaccaaa aaaatttcaa cc                                     862

```

&lt;210&gt; 387

&lt;211&gt; 585

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (375)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (474)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (573)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 387

```

gctgcaaaca aaaagaatga agctcgactg agaattgtaa aaactcttga agacattgat 60
ctggggcccta ctgaaaaatg tgtgagagtc aactcagttt ccagtgggtct ggcggaagaa 120
gacctagaga ccccttttgca atcccgggtc ctcccttcca gcctgatgct accaaagggtg 180
gaaagtcctg aagaaatcca gtggtttgca gacaaatttt cattccactt aaaaggccga 240
aaacttgaac aaccaatgaa tttaatccct tttgtggaaa ctgcaatggg tttgctcaat 300

```

## 265

```

tttaaggcag tgtgtgaaga aaccctgaag gtcgggcctc aagtaggtct ctttctagat 360
gcagtcgttt ttgnnaggag aagactttcg agccagcata ggtgcaacaa gtagtaaaga 420
aaccctggga tattctytac gcccgggcaa agwttkttgt catagegaaa cctnttgggt 480
ctccaagccg tagatctggg tgtacattga ctttcgagat gggagctggg gcttgcttag 540
gacagttcac ggaggaaggg agccgccatg ggnttttcac tgggt 585

```

&lt;210&gt; 388

&lt;211&gt; 591

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 388

```

gtgatctgca tgtggcaggg ctgcgcagtg gagcggccag tgggcaggat gacgagccag 60
accctctgc cccagtcccc cgggcccagg cggccgacga tgtctactgt tgtggagctg 120
aacgtcgggg gtgagttcca caccaccacc ctgggtaccc tgaggaagtt tccgggctca 180
aagctggcag agatgttctc tagcttagcc aaggcctcca cggacgcgga gggccgcttc 240
ttcatcgacc gcccagcac ctatttcaga cccatcctgg actacctgag cactgggcaa 300
gtgcccacac agcacatccc tgaagtgtac cgtgaggctc agttctacga aatcaagcct 360
ttgggtcaagc tgctggagga catgccacag atctttgggt agcagggtgtc tcggaagcag 420
tttttgctgc aagtgccggg ctacagcgag aacctggagc tcatggtgag cctggcacgt 480
gcagaagcca taacagcacg gaaktccagc gtgyttgtgt gcctggtkga aactgaggag 540
caggatgcat attattcaga ggtcctgtgt ttttcttgca ggataagaag g 591

```

&lt;210&gt; 389

&lt;211&gt; 1096

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 389

```

ggcagagcaa gatgggggct taccacacca tcgagctgga gccaaccgc cagttcaccc 60
tgccaagaa gcagtgggat agtgtggtac tggagcgcat cgagcaggcc tgtraccag 120
cctggagcgc tgatgtggcg gctgtggtca tgcaggaagg cctcgcccat atctgcttag 180
tactccag catgaccctc actcgggcca aggtggaggt gaacatccct aggaaaagga 240
aaggcaattg ctctcagcat gaccgggcct tggagcgggt ctatgaacag gtggtccagg 300
ctatccagcg ccacatacac tttgatgttg taaagtgcac cctggtggcc agcccaggat 360
ttgtgagggg gcagttctgc gactacatgt ttcaacaagc agtgaagacc gacaacaaac 420
tgctcctgga aaaccggtcc aaatttcttc aggtacatgc ctctccgga cacaagtact 480
ccctgaaaga ggccctttgt gaccctactg tggctagccg ctttcagac actaaagctg 540
ctggggaagt caaagccttg gatgacttct ataaaatgtt acagcatgaa ccggatcgag 600
ctttctatgg actcaagcag gtggagaagg ccaatgaagc catggcaatt gacacattgc 660
tcatcagcga tgagctcttc aggcacaggt atgtagccac acggagccgg tatgtgaggc 720
tgggtggacag tgtgaaagag aatgcaggca ccgttaggat attctctagt cttcacgttt 780
ctggggaaca gctcagccag ttgactgggg tagctgccat tctccgcttc cctgttcccg 840
aactttctga ccaagagggt gattccagtt ctgaagagga ttaatgattg aaacttaaaa 900
ttgagacaat cttgtgtttc cttaaactgtt acagtacatt tctcagcatc cttgtgacag 960
aaagctgcaa gaakggcact ttttgattca tacagggtatt tcttatgtct ttggctacac 1020
tagatatttt gtgattggca agacatgtat ttaacaata aactaaaagg aaataatcwm 1080
mamrtaaaaa aaatgc 1096

```

&lt;210&gt; 390

&lt;211&gt; 448

266

<212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (76)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (132)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (394)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (439)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (447)  
 <223> n equals a,t,g, or c

<400> 390  
 tcggaggacg cgaaccggca cgctgcgcct ttaaggagtc cggctgggct gggcgccgga 60  
 gctgggagcc gcgcgngtag gagcccggcg caggggtccca gcccggggct agagaccgag 120  
 ggccgggggtc cnggcccggc ggccgggaccc aggcgggttg ggctgggtcag gagtcagcca 180  
 gcctgaaaga gcaggatgga tcttgatgtg gttaacatgt ttgtgattgc gggcggcacg 240  
 tggccatccc aatcctggca tttgtggctt catttcttct gtggccttca gcactgataa 300  
 gaatctatta ttggtactgg cggaggacat tgggcatgca agtccgctat gttcaccatg 360  
 aagactatca gttctgttat tccttccggg gcangcctgg gcamaaamcc tccatcctca 420  
 tgctccacgg attctcttnc cacaagnt 448

<210> 391  
 <211> 1451  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (17)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (18)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1429)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1440)

<223> n equals a,t,g, or c

<400> 391

```
gtcgacccac gcgtccncc acggtccggt ggggagaagc cgggaggact ggggtgcgcct 60
gcagggatcg gaagccgggt ggggtgtgag aggttttctc gctctaggga gattcttcaa 120
gcaatcacta tgtcaacaga cacaggtgtt tcccttcctt catatgagga agatcaggga 180
tcaaaactca ttcgaaaagc taaagaggca ccattcgtac ccgttggaat agcgggtttt 240
gcagcaattg ttgcatatgg attatataaa ctgaagagca ggggaaatac taaaatgtcc 300
attcatctga tccacatgcg tgtggcagcc caaggctttg ttgtaggagc aatgactgtt 360
gggatgggct attccatgta tcgggaattc tgggcaaaac ctaagcctta gaagaagaga 420
tgctgtcttg gtcttggttg aggagcttgc tttagttaga tgtcttatta ttaaagttac 480
ctattattgt tggaaataaa ctaatttgta tgggtttaga tggtaacatg gcattttgaa 540
tattggcttc ctttcttgca ggcttgattt gcttggtgac cgaattacta gtgactagtt 600
tactaactag gtcattcaag gaagtcaagt taacttaaac atgtcaccta aatgcacttg 660
atggtgttga aatgtccacc ttcttaaat ttaagatga acttagttct aaagaagata 720
acaggccaat cctgaaggta ctccctgttt gctgcagaat gtcagatatt ttggatgttg 780
cataagagtc ctatttgccc cagttaattc aacttttgtc tgccgtgttt gtggactggc 840
tggctctgtt agaactctgt ccaaaaagtg catggaatat aacttgtaaa gcttcccaca 900
attgacaata tatatgcatg tgtttaaacc aaatccagaa agcttaaaca atagagctgc 960
ataatagtat ttattaaaga atcacaactg taaacatgag aataacttaa ggattctagt 1020
ttagtthttt gtaattgcaa attatatttt tgctgctgat atattagaat aattttttaa 1080
tgtcatcttg aaatagaaat atgtatttta agcactcacg caaaggtaaa tgaacacgtt 1140
ttaaatgtgt gtgttgctaa ttttttccat aagaattgta aacattgaac tgaacaaatt 1200
acctataatg gatttggtta atgacttatg agcaagctgg tttggccaga cagtataccc 1260
aaacttttat ataatataca gaaggctatc acacttgatg aattctcttg tctaactctg 1320
atttgcatc catggtgtta acatggtata tgtattgtta ttaaagtaag tgacccatgt 1380
caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaana aaaaaaaaaa 1440
aaaaaaaaa a 1451
```

<210> 392

<211> 1425

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (48)

<223> n equals a,t,g, or c

<220>

<221> misc feature



268

&lt;222&gt; (1332)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1381)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 392

```

agttaataag taaaagctac taacaattaa aaaataaata aataaagnca agactgtctg 60
gaaaatggct ctctaaaaag gaccagttgc catcatccac agtggaagat tcaaagcagt 120
tggtccttgg tacgtatgag aagcggattt cattcccttg aattctacag agcagtttat 180
tagagtgaat gcattttaag gccttgcatg tgatatgtca tccagttcat aatcaagttg 240
cctttttctg gctaaaacat aatgattatg tatttttctc atttggtcct acaagctgct 300
ggccctttgt ccctccactg tgggaatcag atctagagca ggctgagcct gcagacacag 360
cagtggccaa aaggtcactc taagtgtttt gtcttgactc cttacttgaa gtccaccacag 420
ctagcacaca tctggtttat actgaagccc cctgcctaga aatactcatt tcaggaacca 480
ccagtaagca tctgtgacca cacaggcttt ttgactgatg gcttcccgga tctggtttca 540
agggataacc cgtctgtgtg gcattctatg tcttctctct acagcgagga ctttgcagtg 600
ctgcttgtgg tccacacaag gggctcagag ctgagcttga actgcttcat ggtcaccagc 660
tctgtccct tccagtcttg agaggctttt ttctccagat ggaacctttc cttcccgcgc 720
ttttctcggt ctctgctgtg ttttctcttg tggcctcta attggacacc tcttggttcc 780
catctctgtg gttctcctgc ctcacttcct gttctgttgt ttttccgttt tgtcaaaata 840
tctcctatgt tcttggttcc ctttctctcg ccagggtttc agctttcctt tagctcttct 900
tctaatatgg cttctgcccc caaaagcctg ctctgtcagg atctcatggt tctccacttg 960
ccagaacctt cttcagcctc agttcctcgg cctcaacttg tacgtttaac ccattgacca 1020
ccamccccca aattcacctt catttctttg accctgctcc tcaactcctt tctgttgarg 1080
aatctgttga ctaactccag gctcactcag gctcacgctc ctgctctctg caccagcctt 1140
tccagagcgt gccagttctc atggcttcat ctgttaactg tkgatcgctt cagtcctgat 1200
tttttagacct aaatggtttc cttaacgcca ttctaactgc ctgtgactca ttttacttta 1260
cagtgtttat tgtaacgcca aaccaacaaa tcacaggtgc ttgcttctct ccataaatct 1320
caacagtcta antttttgtc attcaacatg actcgtttat ccaacctgaa atcgcatata 1380
nccgcaaata tgggtgtagg gacttccgta gaagttccct tagat 1425

```

&lt;210&gt; 393

&lt;211&gt; 4755

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (124)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2562)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 393

```

agcggcgggc agtggaacca catgcttggc tacctggcgg cgctggccaa ggctgcttc 60

```

```

ggcggaaca tgcagctctt cgtcttcttc aacggcgcg ctcgagaaagg cccggctgca 120
cgantgggtc aagcggcagg gcaacgagcg ccaracggca cagcagatcg tmagccatgt 180
ccagaacaag ggcaccccg cgcctaaagg ctggttctct cgcctcgtyt gcatggccca 240
ctgcatccgc ctggcgctca tccgcttcca cgtcaagggt gcacagagca ttgaggatca 300
ccatcaggaa gtgattgggt tctgcagaga gaattgggtt catggcttgg ttgcgtatga 360
ctctgattat gcaactgtgca acatccccct ctatttctagt gccatgccc taaaactgag 420
ccggaacggg aaaagtctca ccacaagcca atatctgatg catgaagtgt ccaagcaact 480
ggacctgaat ccaaatcggt ttcctatttt tgctgctctc ttaggaaatc acattctgcc 540
tgatgaagat ctggcttctt ttcattggag tttacttggg ccasaacatc cactagcctc 600
actaaagggt cgggcccacc agctggtctt gccaccttgc gacgtagtga tcaaagccgt 660
tgmtgactat gkacgcaaca ttyaggacac ctctgacttg gatgccatag ctaaagatgt 720
tttccagcat tcacagtcta gaacagatga caaagttatt cgatttaaga gagcaattgg 780
atattattca ggcactagta agcctatgtc atttcatcca ccacattact tagcagccag 840
acccggtccg tttggaatgc ctgggatggg gccgcgcgat gttcctctc agatgctcaa 900
cattccgcag acctctctgc aagcaaagcc cgtggcccca caggtgccca gccagggggg 960
gcgcccgggc cagggtccat acccgtacag cctctctgag ccagcacctc tcaatttggg 1020
cacgagcggg aagaatctga cggagcagaa cagctacagc aacattctc acgaaggaag 1080
cacacgcgcg tgtatgagcg gtcctcgccc atcaaccggg ccagagcgg caccccaacc 1140
acgtggatct cgcctcttct cctggctctt ctacatctgc atcttccgac aacgacgagg 1200
gcagcggagg ggcgacaaac catatcagcg ggaacaagat tggctgggag aagacgggaa 1260
gccactcaga gcctcaggca cgaggagacc caggagacca aacaaaggca gaaggctcgt 1320
ccactgcctc ttcaggaagc caactagccg aagcaaggga agccagatgg gcaactgtcca 1380
gccaatcccg tgctctctgt cgatgcccac caggaaccac atggacatca ccacacctcc 1440
cctgcccccc gtgcacctg aggtgctgag agtgccgag cacaggcaca agaaggggct 1500
gatgtacccc tacatcttcc atgtcctgac gaagggtgaa atcaaaattg ctgtttctat 1560
tgaagatgaa gccacaagg acctgcctcc ggcgcctctg ctctataggc cagtctctca 1620
gtatgtttac ggagtcctgt ttagtttggc agaaagcaga aaaaaactg agagacttgc 1680
ttttagaaag aacagacttc caccagaatt ttcaccagt atcattaaag aatgggcagc 1740
ttacaaagga aagtctctc aaaccccgga actggttgaa gctcttgctc tcagggagtg 1800
gacctgcccc aacctgaaga ggctgtggtt gggttaaggc gtagaggaca agaaccgcag 1860
atgagggcct tcctggcctg catgaggtcg gacacccag ccattgctca ccctgccaac 1920
gtgcccactc acctcatggt gctctgctgc gtcttacggg acatggtgca gtggccggga 1980
gcacgcatcc ttcggcgtea ggagctagat gccttctctg ctcaggcgct gtccccaaa 2040
ctctacgagc ctgatcagct ccaggagctc aagattgaga acctagatcc ccgaggaatt 2100
cagctatcag ctctcttcat gagtggagta gacatggcct tgtttgcaa tgatgcatgc 2160
ggacagccaa tccctggga acaactgttg ccttggatgt attttgatgg gaagctcttc 2220
caatccaaac tctcaaaag cagccgggaa aagacccac tcattgacct ctgtgatgg 2280
caggctgac aggttgccaa ggtagagaag atgcgccaga gcgtcctcga ggggctcagc 2340
ttctccaggc agagccacac gctcccttcc ccgcgccac ctgcccctgc cttctacct 2400
gcctctgcgt acccccgga ctttgggcct gtccaccct ctcagggcag gggcagaggc 2460
tttgaggcg tctgtggctt tggaggcccc tatggggaaa cggtagcaac aggccttac 2520
cgtgccttcc gtgtggcggc agcatcgga cactgcggag cnttctcagg cagtacagc 2580
agcaggacta gcaagtccca gggcgagtc caacctatac cttctcaggg aggcaacta 2640
gaaatagctg gcaactgtgt tggccattgg gctgggagca ggcggggccg tgggggccc 2700
gggccttctc cctgcagggt ggtttctgtc ggaggaccag ctagaggcg tccaagagga 2760
gttatttcca cccagtgat tagaacattt ggaagagggt gaaggtacta tggcagagg 2820
tacaaaaacc aggcagcaat tcagggcaga cctccttatg ctgcttcagc agaagaagt 2880
gccaaagaac ttaagtcaaa atctggggaa tcgaagtcct ctgctatgtc ttcagacggg 2940
tccttggtcg aaaacggagt gatggccgag gagaagccg ctcaccagat gaacgggagc 3000
acgggtgacg ccaggggccc cagccactct gaaagtgcct tgaataatga ctctaaaacg 3060
tgcaatacaa atcctcattt aaatgcacta agtacagaca gcgcttgccg cagagaagct 3120

```

```

gctctggagg cagctgtctt aaataaagaa gagtaaactt attttttata gaggggtgaag 3180
gatgctggaa gggtaaggat ttaggaatat ctggagagaa agagagcctg cagttatgta 3240
cattttgtcc tttccgtaag agaaaaatga ggactttgga aattcagatc cctctttgat 3300
atcagagatt taaacaacac attttttagtt ttaaccagtt gtagtcaaaa tgctacaata 3360
aaacaaaaaa gagaaagaaa atgaagagca tttgactccc gcacttaaaa tgaagtacac 3420
ataaagttta aactgggttat gacaaaagcc tatagttgtg tttcttgaac tataaagaaa 3480
acaaattttg gcagtcttta agtatatata gcttaaaata taattttttag catttggcac 3540
catatgtatg ccattatatt tgattttgca ttactgtttc acaatgaagc tttctttaag 3600
gctttgattt ttatgattat gaaagaaata aggcacaacc acagtttttc tttcttaaat 3660
ttcatcactg ttgatgtggt tcttttgtgt taaaaaaaaa aagtgcaact atcaaaacta 3720
aaaaattata gagtaatatt gccgttctgc tgattttaaa tatacaatac atcatacata 3780
ctttacaagc aagttaaatg gagataaagt tgaaatcata gaagatgcaa atgacctttc 3840
aaaatcaaca caatgtgttc tgaaactttc gtgactaata ccatgcatct gtgatcaatg 3900
aactatgtgg ttttgaatcg gatgtagacc attagtacta ctacttgagc taaacttctg 3960
catggttcat aattttttaa gtgtgtagtt aatatgcatg ttatcgtcct tttctccatt 4020
cttaacagta tgtgcccatt tgcaaaaaca aaatgctaata aatcagtaat agtcctataa 4080
aagatgttaa ctctgttttag tcattgactg atcttgctct aaccttaaaa ttttgtgatt 4140
attgacctct gttgcattta ttctaaagcc ccccaaaaat tatctagccg tttcgaatat 4200
caacattacc ctggtgtatt cactgctgta tgcattattg ttctttgttg ctgttttatg 4260
ccttcataat agcaaatatg aaattctgtg aaaaaaaacc ctttgatctt aaaaaaaaaa 4320
aaaccacccc ccccttctgt agcaggaaac aaattgcttg ttcttgagaa ctttcccatc 4380
aagaatttag tagaagcagg tatacttcta tcattttgat gtttttgta atgtttccaa 4440
acaatgtact ttgaaatcag aatcacttct tatcgttttc atatacttct gatgctcttc 4500
atcacattag tgatcagaaa tgaggtgtaa tcccccaacc cctgcccga agagctaagt 4560
aggatcttac tgtaagttga agggagtttt gccctaactc atggattgtg caagaatgaa 4620
ctgctgttgg gtttgattga ctgtcgatgg attgtggtgt ggtgtatctg aaggctattg 4680
aatgcaactt acaatgctta ataaaaatct ttattctttt agtataaaaa aaaaaaaaaa 4740
aaaaaaaaaa aaaaaa

```

&lt;210&gt; 394

&lt;211&gt; 3039

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 394

```

aaaccggaaa gtttgttaga aaattgctgc acatggcctt tgcagaaaag agagccttca 60
aaacctctta cattccagta gaaaactctc tctgcaagtc cttacttttg ttcactcatt 120
ccagggaagg gcttcaatat tggatattca cacagagccc agtttttcaa gtttgccttc 180
acagtcacg tatgctgaca tgggtgttcc acttcctgca aaaaacttaa tatttaaaga 240
tggtgtctta tcagaatgga gtggacggtc accttcctca cttcttattg ctaatctcca 300
tttgcaataa tttgggttaca ccatttggtg ctacacttt ctgccttttt tctttcttaa 360
cgtagcttt atagtgtcag ccactaaaaa gcacctctgt gctgcagtgc aattcttgct 420
taactaatat taaaagttgg ggaacatatt catgttttct gaagttttgc tcattattgc 480
acatcttatt gcgacaaagt gcttttttagc agccagcact gtatttttta ccttgagaca 540
atctgcattt cttttataaa actaagtata tactttatag gctttatgat gactgttatg 600
tttataagca gtcactatga aaattgcaat ggtaatttta tatgttagtt tatcaaacat 660
aaatcttggt taattttata ttttgttacc tatactttgg gggatcaagg gaagagatgg 720
aactcttctc ctgaaaaggc ttcttggtac ttaaagtagt aaaactataa aacaataaac 780
atccagtatt gagagatgat atgatagggc attatgaatt cctatgggtg tctgtaaatt 840
atgtatgtca gttggacatt gtagaaggta tgtaaatcag catagtgtgt tataacttaa 900
ccttgattta taaggctcta agattatgac tattcattga catctcatga gaagcttttag 960

```

## 271

```

aagactttct atttttaaac accatttata tgtggacttc tgttgtcact gactttgggc 1020
tttatatttt catagagtct ttatggaaaa aatagaattt attttccact cttgtagcta 1080
tagctgctgc acactttcac cctgatttat ttttttgttt cttagctttg atgttttcaa 1140
accaaggatt gtgatttttag gttagaatta catattagaa gcattaagac tatgtctttg 1200
gatcagaatg ctttagtgat aaacctactt tgaagacata ctcttaagca atctggatct 1260
taaatttatg tgaatacttt ttttagaaaat gataaagaaa aatggaatta cttcaaagtg 1320
tttcttgagt cattgattct ttttagcatct caaatgttaa ttagaataat tggaatcact 1380
tttttagactt ttcaagttac cttccttggg aagtttgtgc agtgttatag tttagtttag 1440
ctcctcttac agggtaatgg tttgctagtt taaaactgta accaaacgaa ctggtcagac 1500
aacatatatc taaaacactt aaaatgttag gaagtttggg aatgttataa cctaaacggt 1560
tttgctggta actttttgtt atttatagat atttgtgtat ttaacataca tacttcagga 1620
aatatatgcc tttcctaaaa ctttaaccatg cattcaatac catggcctat ctatagaatt 1680
gaatattttg gaccatgtta tctgtggcac agtcagtgtc gtgtttgagg taaatgcagt 1740
aacggttagt tttctacttt gtcttataga aggtagaaac catgtgtatg ttatgtttgt 1800
ctataaaaaga aaaaatacta atattaaata atttcttacg actctgagtc actcacttat 1860
ttttccaata attgatattg tacattccta gtgccattag gtatgtatgt atgtaacttt 1920
tacagttttt cagctgaaag ttgtaagtat tttttttttt tgatcggggc tctttaatct 1980
cattttaatt tcctttgttt gaactgtagt tattttattc tatattaacc atctaaacca 2040
actgtaatga catgtacact aatacagaat tgaacatttg tagttgttgg cagtgaaccc 2100
agttgttggg gaattttaaag cttaaaatat gggaatgatt tgctgctata tttcctttga 2160
gagagaaagg aggaagaaat agaacctaat agtgatcatg aattttaggg aaagtaccga 2220
agaaccatgg ggtccctctt ggtttcttgt gttgaatgag gcaagggtaa tcatctgatt 2280
ccgagctgaa gacctctggt cctcttaagg agggagagtg cattttttaga gcttttagca 2340
aaatgtgaaa agctgatgtt tgcgccttgc tttgtgaatt tggctttgtt ttacttatac 2400
attaactcat gtaatctctt aaatcttaca agcattgatc catttcaaca aaaaggtaaa 2460
tttaaaatgc agactttgtt atttgccaaa gaagattcat gaaaaattta cgtccaatta 2520
ttttgcaaat agttaatttc atttggcctt ttaccatgtt ccttccttcc tttttcccg 2580
ttccttaatg taattttaaac cctggcaaac attcttttaga aaccaagagg aaagaaagaa 2640
caaatatcaa aaaagacata gaatttaata ttgatacaat ttcacctcta aaatggattt 2700
gaagaaatgc aacttttatat caaaaaatgt catctgattt cctttgtttc ttttttaa 2760
tatgtaatca gatgatttta tgtttttttt tcaggggagc ggaatatttg tttcttttac 2820
ttgttgtttt cagttttctc tgccattcak gtttctttt tgtgttcagt gtttcaaata 2880
caatttgtat ttaaggattt taaaatacca aactgtaact gagtacagt gatcgtwttc 2940
tgttaggatg ttaatattat acaatgaaat ctataaagtg wtgtcaatw gattattgac 3000
acataataca tgtwtacaaa taaamtgtgg tawtgatca 3039

```

&lt;210&gt; 395

&lt;211&gt; 3276

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (3258)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (3260)

&lt;223&gt; n equals a,t,g, or c

272

<220>  
 <221> misc feature  
 <222> (3262)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (3263)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (3270)  
 <223> n equals a,t,g, or c

<400> 395  
 aaaggatgaa gaggaagagc ctcccagcat gactcagcta cttcgaagag wagrgctgtc 60  
 ttgccacaga cccggtatgt ggagtgttca ttgtcgtagc aaggaarggt rtgacatgat 120  
 gggaaagaaat cagactgctg tgagagaaga gatgwttctc ctggcaaact acttgatag 180  
 tatgtatatk atgttaaata ttcgaattgt gctagtgtga ctggagattt ggaccaatgg 240  
 aaacctgatc aacatagttg ggggtgctgg tgatgtgctg gggaactkcg tgcagtggcg 300  
 ggaaaagtgtt cttatcacac gtcggagaca tgacagtgca cagctagttc taaagaaagg 360  
 ttttgggtgga actgcaggaa tggcatttgt gggaacagtg tgttcaagga gccacgcagg 420  
 cgggattaat gtgtttggac aaatcactgt ggagacattt gcttccattg ttgctcatga 480  
 attgggtcat aatcttggaa tgaatcacga tgatgggaga gattgttctt gtggagcaaa 540  
 gagctgcatc atgaattcag gagcatcggg ttccagaaac tttagcagtt gcagtgcaga 600  
 ggactttgag aagttaactt taaataaagg aggaaactgc cttcttaata ttccaaagcc 660  
 tgatgaagcc tatagtgtc cctcctgtgg taataagtgt gtggacgctg gggaaagagt 720  
 tgactgttgt actccaaagg aatgtgaatt ggacccttgc tgcgaaggaa gtacctgtaa 780  
 gcttaaatca tttgctgagt gtgcatatgg tgactgttgt aaagactgtc ggttccttcc 840  
 aggaggtact ttatgccgag gaaaaaccag tgagtgtgat gttccagagt actgcaatgg 900  
 ttcttctcag ttctgtcagc cagatgtttt tattcagaat ggatatcctt gccaraataa 960  
 caaagcctat tgctacaacg gcatgtgcc a gtattatgat gctcaatgtc aagtcattct 1020  
 tkgctcaaaa gccagggtg ccccaaaaga ttgtttcatt gaagtgaaty cttaaagggtga 1080  
 cagatttggc aattgtggtt tctctggcaa tgaatacaag aagtgtgcc ctgggaatgc 1140  
 tttgtgtgga aagcttcagt gtgagaatgt acaagagata cctgtatttg gaattgtgcc 1200  
 tgctattatt caaacgccta gtcgaggcac caaatgttgg ggtgtggatt tccagctagg 1260  
 atcagatggt ccagatcctg ggatggttaa cgaaggcaca aaatgtggtg ctggaaagat 1320  
 ctgtagaaac ttocagtgtg tagatgtctt tgttctgaat tatgactgtg atgttcagaa 1380  
 aaagtgtcat ggacatggg tatgtaatag caataagaat tgtcactgtg aaaatggctg 1440  
 ggctcccca aattgtgaga ctaaaggata cggagggaagt gtggacagtg gacctacata 1500  
 caatgaaatg aatactgcat tgagggacgg acttctggct ttcttcttcc taattgttcc 1560  
 ccttattgtc tgtgtatatt ttatcttcat caagagggat caactgtgga gaagctactt 1620  
 cagaaagaag agatcacaaa catatgagtc agatggcaaa aatcaagcaa acccttctag 1680  
 acagccgggg agtgttctc gacatgttct tccagtgaac cctcccagag aagttcctat 1740  
 atatgcaaac agatttgcag taccaacctg tgcagccaag caacctcagc agttccatc 1800  
 aaggccacct ccaccacaac cgaaagtatc atctcaggga aacttaattc ctgcccgtcc 1860  
 tgctcctgca cctcctttat atagtctcct cacttgattt ttttaacctt ctttttgcaa 1920  
 atgtcttcag ggaactgagc taatactttt ttttttctt gatgttttct tgaaaagcct 1980  
 ttctgttgca actatgaatg aaaacaaaac accacaaaac agacttcact aacacagaaa 2040  
 aacagaaact gagtgtgaga gttgtgaaat acaaggaaat gcagtaaagc cagggaattt 2100

## 273

```

acaataacat ttccgtttcc atcattgaat aagtcttatt cagtcacggtg tgagggttaat 2160
gcactaatca tggatttttt gaacatgtta ttgcagtgat tctcaaatta actgtattgg 2220
tgtaagattt ttgtcattaa gtgtttaagt gttattctga attttctacc ttagttatca 2280
ttaatgtagt tcctcattga acatgtgata atctaatacc tgtgaaaact gactaatcag 2340
ctgccataaa tatctaatat ttttcatcat gcacgaatta ataatcatca tactctagaa 2400
tcttgtctgt cactcactac atgaataagc aaatattgtc ttcaaaagaa tgcacaagaa 2460
ccacaattaa gatgtcatat tattttgaaa gtacaaaata tactaaaaga gtgtgtgtgt 2520
attcacgcag ttactcgctt ccattttttat gacctttcaa ctataggtaa taactcttag 2580
agaaattaat ttaatattag aatttctatt atgaatcatg tgaaagcatg acattcgttc 2640
acaatagcac tatttttaaat aaattataag ctttaaggta cgaagtattt aatagatcta 2700
atcaaatatg ttgattcatg gctataataa agcaggagca attataaaat cttcaatcaa 2760
ttgaactttt acaaaaaccac ttgagaattt catgagcact ttaaaatctg aactttcaaa 2820
gcttgctatt aaatcattta gaatgtttac atttactaag gtgtgctggg tcatgtaaaa 2880
tattagacac taatattttc atagaaatta ggctggagaa agaaggaaga aatggttttc 2940
ttaaatacct acaaaaaagt tactgtggta tctatgagtt atcatcttag ctgtgttaaa 3000
aatgaatttt tactatggca gatatgggtat ggatcgtaaa attttaagca ctaaaaattt 3060
tttcataacc tttcataata aagtttaata ataggtttat taactgaatt tcattagttt 3120
tttaaaagtg tttttggttt gtgtatatat acatatacaa atacaacatt tacaataaat 3180
aaaatacttg aaattctmaa aaaaaaaaaa aaaggggggg ccgtttttaa gggaccacag 3240
tttacgaccc cggctgcnan gnnaaacctn ttttat 3276

```

&lt;210&gt; 396

&lt;211&gt; 1632

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 396

```

ggcagagtgg aagagggggcc ttatgtgaat gattgccaca tactgtttct gttgctgctt 60
tttttccgat tcctttttgt cattggattt gttgttttg tcatgtgggtg aatgggtgtt 120
tagttattgt gttgctgcc gaatcagaat ccagttcttg ttcttactgc cttatagtta 180
ttgtgttgcc accagaatca gaatccagtt cttgttcata ctgccttgta gtgagggcag 240
tttaatatct acaaaagaagc ttttagaagc tgaaaaagtc aatgtgattg tgcattctgc 300
ttttaagaag ctgtttcagc tatgaactgt gtatgtgcta taagtgtgag gtaccataag 360
ttattttaatt tttaaaagag gaaactcctg agtgagctgt ttaagaaatc tgagtgtgat 420
ctattgttac gttatttata actaggtaaa atgtctgtcg tgatagattt cttttaacgt 480
tcagatactg tggttgggtt gtctatatat aatatgcaga tttgcctgct ggaatcataa 540
tccattttta agtgaatgta agaaatgaaa actactgcat ttgtgtcttt tgaaggcaag 600
gatccttgga ttttaaagga agagtatgtg ctttgaaggc actcagagac tagtaatagc 660
atatggtttg aagggaaacc cattctcttt caattacaag agagcatcac ttagcgtgca 720
gtacttctgt tacagcatcc gatgtgtcct ttattttaaa ttgtaaccat aacagccatt 780
aatggcttta tttcttgat tgctctcatc tgggaaaagt ctctacttct tcaaacgtaa 840
cataaatcta ttatgaagct tgtcccctag tatgccatta taaagaaaaa attcttcgat 900
ggtatgcagt gtatctattc tgtttgtaaa agatcatgtc aaaatgttct gcctctataa 960
tgataataga tggttttgtc tttcaggata tttatccacc tactgtcttc tttgccttaa 1020
agggacactt ggccatcatt tttaggctcg aacttaacac tgtaagaaa taactgaaat 1080
atgatgggat ttacattaat ttttgaaatt caatgggtgg atagaattag gtcaggaaat 1140
ggaagtgtt ccaatgggtg gagaactagg agacaagatg attcacttta ttatttaaac 1200
caagcttcat ttttagtttt tgttgtttta atggactgga aagttaagtt tttgcaggga 1260
ttgttttgaa ataaagagat atgctaactc acagatgaac tttgttaaga cccctttatt 1320
tttatataaa gtctaataat tgaaaagcga ttgttataaa gtaaaattct ctcttcctat 1380
tctaataatat atcatatatt tcaggcttct atttgaaaac aggtataaga gatgatatga 1440

```

## 274

```
tacaacccta tagataatgt tttttgcttg attgacttat ataatcactg tttcatgatt 1500
actgcttttg gaataatagg aagttttgtg aaatgctggc ctgtgtgata tcttagaatg 1560
caaatttaat aaagtgtgta tacatgcata aaaaaaaaaa aaacctcggc cgcgaccacg 1620
ctaagccgaa tt 1632
```

&lt;210&gt; 397

&lt;211&gt; 808

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 397

```
gaacaaaagc tggagctcca ccgcggtggc ggccgctcta gaactagtgg atccccggg 60
ctgcaggaat tcggcacgag gtgtcatgaa tagaaacttc caaatgtaac catggaagct 120
aagtttgccc tgctttgctt tttagtctcc acaccatggg cagaactgct gtctttacta 180
cttcatctca cccaagtccc gttcccaggc agccaggggc ctgggtttga ataattgcag 240
ggccagcctg ccatgatctt tctcacttac tctctccca ttcagcaatc aaccagacta 300
aggagttttg atccctagtg attacagccc tgaagaaaat taaatctgaa ttaattttac 360
atggccttcg tgatctttct gctgttctta ctttttcgaa tgtagtggg ggggtggagg 420
gacaggttat ggtattttaa gagaataaac attttgcaca tacatgtatt gtacaacagt 480
aagatcctct gttaaaacca gctgtcctgt tctccatctc catttcttcc catgctgtaa 540
ccccaggctc caccagctgt tccccagtga tgttacctag cttccctcta ccgttgctta 600
ctgaccattt ccactacatg cctttcctac cttcccttca caaccaatca agtgaatact 660
tgattattat ctcttcctta ctgtgcttta tctttttgt ttggattggg tctaattaat 720
gaaaataaaa gtttctaaat ttacattttt atagggtatt gtaaataaaa acaaattgta 780
tacttaaaaa aaaaaaaaaa aaaaaaaaaa 808
```

&lt;210&gt; 398

&lt;211&gt; 2428

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1025)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 398

```
aattttcaga ggttcagatt gcacttaatg aagctaagct tagtgaagag aaggtgaagt 60
ctgaatgcc a tcgggttcaa gaagaaaatg ctaggcttaa gaagaaaaaa gagcagttgc 120
agcaggaaat cgaagactgg agtaaattac atgctgagct cagtgaagcaa atcaaatacat 180
ttgagaagtc tcagaaagat ttggaagtag ctcttactca caaggatgat aatattaatg 240
ctttgactaa ctgcattaca cagttgaatc tgtagagtgt tgaatctgaa tctgaggggc 300
aaaataaagg tggaaatgat tcagatgaat tagcaaatgg agaagtggga ggtgaccgga 360
atgagaagat gaaaaatcaa attaagcaga tgatggatgt ctctcggaca cagactgcaa 420
tatcggtagt tgaagaggat ctaaagcttt tacagcttaa gctaagagcc tccgtgtcca 480
ctaatgtaa cctggaagac caggtaaaga aattggaaga tgaccgcaac tcaactacaag 540
ctgccaaagc tggactggaa gatgaatgca aaaccttgag gcagaaagtg gagattctga 600
atgagctcta tcagcagaag gagatggctt tgcaaaagaa actgagtcaa gaagagtatg 660
aacggcaaga aagagagcac aggctgtcag ctgcagatga aaaggcagtt tcggctgcag 720
aggaagtaaa aacttacaag cggagaattg aagaaatgga ggatgaatta cagaagacag 780
agcggtcatt taaaaaccag atcgctaccc atgagaagaa agctcatgaa aactggctca 840
```

275

```

aagctcgtgc tgcagaaaga gctatagctg aagagaaaag ggaagctgcc aatttragac 900
acaaattatt agaattaaca caaaagatgg caatgctgca agaagaacct gtgattgtaa 960
aaccaatgcc aggaaaacca aatacacaaa accctccacg gagaggctct ctgagccaga 1020
atggnctctt tggcccatcc cctgtgagtg gtggagaatg ctccccctca ttgacagtgg 1080
agccaccctg gagacctctc totgtacttc tcaatcgaag agatatgcct agaagtgaat 1140
ttggatcagt ggacgggcct ctacctcacc ctgatgggtc agctgaggca tctgggaaac 1200
cctctccttc tgatccagga tctggtacag ctacctgat gaacagcagc tcaagaggct 1260
cttccccctac cagggtactc gatgaaggca aggttaatat ggctccaaaa gggccccctc 1320
ctttcccagg agtccctctc atgagcacc ccatgggagg ccctgtacca ccaccattc 1380
gatatggacc accacctcag ctctgaggac cttttgggcc tcggcacttc ctccaccctt 1440
tggccctggg atgcgtccac cactaggctt aagagaattt gcaccaggcg ttccaccagg 1500
aagacgggac ctgcctctcc accctcgggg atttttacct ggacacgcac catttagacc 1560
tttaggttca cttggcccaa gagagtactt tattcctggt acccgattac ccccccaac 1620
ccatggctcc caggaatacc caccaccacc tgctgtaaga gacttactgc cgtcaggctc 1680
tagagatgag cctccacctg cctctcagag cactagccag gactgttcac aggttttaa 1740
acagagccca taaaactatg acctctgagg ttctattgga aagaaagtgt actgtgcatt 1800
atccattaca gttaaaggatt tcattggctt caaaatccaa aagtttattt taaaaggttt 1860
gttggttaga ctaagctgcc ttggcagtg gtatttttga gccaaacaat tcaaaaatgt 1920
catttcttcc ctaaaataaaa atcacctttt aagctagagc gtccttacia ctttgaaatg 1980
tgcaataaag aatacctgtg ttttagctaa ttagcatat gtaattgcaa aatgatttag 2040
aatgtcatga aaaatatgaa catttcctgt ggaaatgctt taagaacatg tatttccatt 2100
atcctatctt tagtgtacac cagctgaata cggagcaatg gtgtttataa gcgttttttt 2160
aaactatctg gtcacaaaga ctgttacgct aaaaatgttt actaaaagat cactaaacta 2220
tctccccctc tgctgaagtt ctttgtagta atagctcata aaaatttggt tattaatatt 2280
tcccaagtgt ctgttgactc attgggactg ttatgaggct tgtgccattt gggggaacat 2340
gtaaactcag gctcccrcaa ctgaagrtgg tggctggtgg gcacattccg gctgctcctc 2400
cgtcacctgt ggaactctac aagtgatt 2428

```

&lt;210&gt; 399

&lt;211&gt; 2732

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (699)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 399

```

gtgtaaatat gccttatact tctgctggaa acagctaaca gacagggtaa taatagccta 60
ggttccccca aagtactgta caagaagata agttatattc acctagcggg aaaaaaagtg 120
ggctaaacta gctccagaga acttgatgaat tctttgctaa aggctctttg ttttaggcat 180
ttgatgaagc aattgctgaa ttggatacgc tgaatgaaga gtcttataaa gacagcactc 240
tgrtcatgca gttacttagg gacaatctca ctgtaagtac tacttccaca gggtttatag 300
tctctttcct attcacctac ttaataattc actgttatct tcaagagggg atttgtacca 360
ttaaatgtag ttacagtttt aagttgttaa atttggtata aatgactgct gaagttttga 420
cctttgcaat catccctatc tgcagtgaca caggaataat tttaaactgt cgagtgaat 480
aagattatac atactgggcc acttacctag ggaactttta gtagccctgc tttgattata 540
cttcccttct cttgcagctg ttggacatcg aaaaccaggg agacgaagga gacgctgggg 600
agggagagaa ctaatgtttc tcgtgctttg tgatctgttc agtgtcactc tgtaccctca 660
acatatatcc cttgtgcatg aaaaaaaaaa aaaaaaana gaatcgtacg tcgactttcg 720

```



276

```

atttttcaca gcctcagcct aggaaaaatg gttcatggga taaacagctg gtatttgtat 780
ctaaaaactca gattgggtcac ataaatgcca cggcattccg aagttttgat tttgattaac 840
attgacagga ttactgtgtg ttttaattttt taaaaactga acactgtgat tatgggggtt 900
tgtaatttag cagaactcct actggtagaa aaaatagacc tgaattatgt gtaacttttt 960
ggaaggttta atctgatatc aaaataatca ttgaaataca attccattgt aaagttgtac 1020
agaaagtat agagattata ttgtgatgct ggaacttgga gtgagacaca catcatttgg 1080
catttgagtt gaatggtaat tcacagtaat gctgccgttg ttcgggactt aaagacactt 1140
gacctgtttg ggctgttgcc acttaaaagt tcatgaccac aaatgtccac agtgtcttcc 1200
tctgaggaaa ctcgaatcct gaaatggaaa ttctttgtgg cagataactg gcttatgaca 1260
ccttgaaaag ttcaagtgtc catataacac accacactga accccctttc ctacagcaat 1320
atgttcacta tgttaccaat ttgcaacttg tgcttcaata gtggaatcta ctttcattgt 1380
taacactgag ctaaagaaaa aaagccgtgt gttttatgaa tgaccttacc tgtttcctgg 1440
ataatacctt taagaataat gtcctgagtc aggcgtgggtg gtgcgtgcat ctagtcccaa 1500
ctatttggga ggctgaggca ggaggatcgc ttgagcccag gagttttaaag ctgcagtgcc 1560
ctgtgggttc acctgtgaat aactgcactc cagcctgggc aacatagcga gacctcatct 1620
ccaaaaaaga aaacaaaaaa caaaaaaagg aatgatgttc tgtagagatg gcctttcact 1680
tgaggagtac tcagttttca ggttcttctc agctcggggc ttttaaattt tgaatctaa 1740
acattctttc ccaccatcct ttttgactgt tgaccttggg tttctcttct aagtttctgt 1800
ccctctgctt ccttactttt tttccttttt gaattctatc tttatctgtc tttgttcac 1860
tttttaatgc tatatatggg caggggtgag agacattact gagcaccttg gtgagcaagc 1920
ctggccttaa agattggaga agagcttctg gcaccagaac cctgtcttcc tccagttctc 1980
aacayggtgt tgctcttcag tcataaccgga atctgaatca aaaaagtatt tttaaatata 2040
catgatttct ccctgtattg aggctagccc tgatcatgct ttttgtgcct gtcaccaggt 2100
ctcccaagtg cactcatcca ggtcagtgtc cagatgtgtt taaggagacc ctatatcag 2160
ggaagttagc tgaacactgc agtggggaga attgagaata gtcaggccta tcagtctcac 2220
agaatcacc ctctacctt gatattccac ttagctgtag agtccatctg tttgtccatc 2280
tgctgaaatg agaaaagaaa aatttatgca ctgattttaa acaaaccaaa aaaaagaaaa 2340
aaacaaaaaa aaaaatccct cctttctagc tgaacaaaaa tgtgcagtta atacttggcg 2400
cttgaaaatg cagtagtgaa tgtggaacca agcctgtctg tatactctgt agctcttttc 2460
ttgctttgtt ttttcttacc agtattctgc ctaacgtttg cttctgtgat ggttatattg 2520
cctagcaagc acaccctggg ttgtgaaaat agtatagcaa aaaagaaaaa tccccggtta 2580
ttgatgtact agatttgtgt atgtctttta aacagttcta gtttcacctt acacagaata 2640
atcaggaaaa gtgtaaaaat tcaaaagtga aataaaaatt ttatcagtta aaaaaaaaaa 2700
aaaaaagggc cgctcgcgat ctagactagt cc 2732

```

&lt;210&gt; 400

&lt;211&gt; 1362

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1175)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1250)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

277

&lt;221&gt; misc feature

&lt;222&gt; (1263)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1285)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1343)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 400

```

cagtaattgg agaattcaga gattgcattt ctagcagaga attccttcag ccttcttcca 60
aagctagctt ggaatctaca agcgacttgg gagcttctgg gaaacatggt ggcaacgtct 120
ctttggatgt tttaccagtc aaaggctctc agggttctcc tcttctctca cgggcggtct 180
gccctccgga tcagctggcc tccgaagagc cgtggactgt cctacccgag cacttgatct 240
tggtagctcc ttctccttgt gacatggcaa aaactggacg tttccagatt gtgaataact 300
ctgtgaggtt actgagattt gagctgtgct ggccagcgca ttgcctcaca gtcacgccgc 360
agcatggatg tgtcgcgcca gagagtaaac tacaaattct tgtgagtcct aattcctcct 420
tatccacaaa acagtcaatg ttcccgtgga gtggtttgat ctatatacac tgtgacgatg 480
gacagaagaa aattgtgaaa gttcaaattc gagaagattt aactcaagtg gaacttttaa 540
ctcgtttgac ctccaaacca tttggaattc tttcccagc atctgagcct tcagttagtc 600
atttgggtcaa accaatgaca aaaccgcctt ccacaaaagt tgaaataaga aacaagagta 660
ttacttttcc tacaacagaa cctggtgaaa cttcagagag ctgtctagaa ctcgagaatc 720
atggcaccac agacgtgaaa tggcatctgt catctttagc gccaccttat gtcaagggag 780
ttgatgaaag tggagatgtt tttagagcta cctatgcagc attcagatgt tctcctatct 840
ctggtctgct ggaaagccat gggatccaaa aagtctccat cacatttttg cccagaggta 900
gggggggatta tgcccagttt tgggatgttg aatgtcacc tcttaaggag cctcacatga 960
aacacacgtt gagattccaa ctctctggac aaagcatcga agcagaaaat gagcctgaaa 1020
acgcatgcct ttccacggat tccctcatta aaatagatca tttagttaag ccccgaagac 1080
aagctgtgtc agaggcttct gctcgcatac ctgacaggca gcttgatgtg actgctcgtg 1140
gagtttatgc cccagaggat gtgtaccgtt cctgncgact agtgtggggg aatcacggac 1200
acttaaaggc aatctgcgaa ataattcttt tattacacac tcaactgaagn ttttgagtcc 1260
canagagcca ttctatgtca aacanttcag gactctttga ggaaggttat cgcagatcac 1320
agtggctctca tcagcgtgca gantttggct tttggagtgg gg 1362

```

&lt;210&gt; 401

&lt;211&gt; 1403

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 401

```

ttttgaaatt aatattaata tttttgttgg ttaactttta agctagctcc cctaacttta 60
tatatttttt gggaaaaaat acctaaaaac ctacagctac aaagactctc agaaatgcc 120
aagattttca aggaaattca tattatatat ttcaaaaatg atttatcaat gttatctacc 180
aaaagaaata attttatttt tcccctttgg ggagatatta tcctctaata tgagaatcag 240
atccctagat tctattttct cctatactat taaactcaac cttgaacctg agcttggttg 300
ttctgtgcct tagtttctcc actcgtaaac aatttcctat aaaaattgtt taaacaccaa 360

```

278

```

ccaaaattta ccatatgtat tcattctctt gccttaaaga tcacttctta acttacattt 420
ggctctcacc ctctaaaaat ttgtagtttg gagagtaact gaagccacaa ttttaagaaa 480
catgttttcc tcacaaaata tattgtaatc tgattttcct atcttgtatt catgcagaaa 540
attggagaaa atgtgtattg tcttgtgcca ttctgcaata tgaatttctc aggaaaaaga 600
tgtttcaatg gcaatacttt cttaaataat tcaagatggg tgtgaggacy tatcttatta 660
gttttagtgct gtgttaacca tttgtgaatt acttcttggt taaaggaagt tgtcaaaaaa 720
ttttaagatt ctaaattggaa tacacgaata aagtaagcct tagaatagaa acctcacaaa 780
aagttgtcat ttgcggttga taattaacat aggtgtttta ttctctcaac tccttagtac 840
cagagccaaa tacaatttag ttttcagaaa tcttatcaat attgttctat ttacctactt 900
ataaatctgc agataaccac ttgaaccagg caaatacact gaagataaag gttatttctt 960
tttttagctt tgaatttgct atgaccattt tagtcttgca gatagcaggg cagcccttgg 1020
ggcaaggatt tactctggga ggtaccgtta agagccttct tcccccttt gaaagatcct 1080
tttacaatgt taaagtatac tagttgcaag aacaagcagg atttgaggt tgcctttacca 1140
gcatgagtct catttttctg gcttaaaatc tgggactgtg aaattattcc ataggaaagt 1200
gaatrtrtatt ttgcagaatt agcctcttac ataaaagtat ttgttgaagt gtcttttaaaa 1260
ttgctatcat gagcaaaact gggtgctgta atgcttggtt ttctgtattt atttacacat 1320
taaattctta caaaayaaaa tgtgttcgtt tgttttatag taagatgttt tattttgaac 1380
ttatttaaat gtttatttgt tag 1403

```

&lt;210&gt; 402

&lt;211&gt; 2387

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1257)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1316)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 402

```

tcagcagggc cacgctccct cctaaggctt cagggagaat cattttttgc ctccctccagc 60
ttctagtagg tccaggtgtc cttggcttat ggctcatca ctccagcttc tgccctctgtc 120
ttcacatttc cttctgccct ctctgtatct ctgtgtgtcc tctcctcttc ttctaagggtc 180
attgggtttt aggggtccgc ctggataatc caagatgatc ccatctyaaa attcctaatt 240
atactggcaa agaccctttt tacaaagaag gacatgaaca tgggttttggc agccagtgtt 300
caccctgttg tgatcagtaa cgcgctccgt gtgtctctct ctccctccag gtgcatagcg 360
ggctgctgct tcacccctt ctgctgggat gcctgcagg acgtggacca ttactgtccc 420
aactgcagag ctctcctggg cactacaag cgttttagg actcagccag acgtggaggg 480
agccgggtgc cgcaggaagt cctttccacc tctcatccag cttcacgcct ggtggaggtt 540
ctgccctggt ggtctcact ctccaggggg ccaccttca tgtcttcttt tggggggaat 600
acgtcgcaaa actaacaat ctccaaacc cagaaattgc tgcttggagt cgtgcatagg 660
acttgcaaag acattccct tgagtgtcag ttcacggtt tctgcctcc ctgagacct 720
gagtcctgcc atctaactgt gatcattgcc ctatccgaat atcttctgt gatctgcat 780
cagtggctct ttttctctgc ttccatgggc ctttctggtg gcagtctcaa actgagaagc 840
cacagttgcc ttatttttga ggctgttctg ccagagctc ggctgaacca gccttttagt 900
cctaccatta tcttatccgt ctcttcccg cctgatgac aaagatcttg ccttacagac 960

```

279

```

tttacaggct tggctttgag attctgtaac tgcagacttc attagcacac agattcactt 1020
taatttctta attttttttt taaatacaag gaggggggcta ttaacacca gtacagacat 1080
atccacaagg tcgtaaatgc atgctagaaa aatagggctg gatcttatca ctgccctgtc 1140
tccccttggt tctctgtgcc agatcttcag tgcctctttc catacaggga tttttttctc 1200
atagagtaat tatatgaaca gtttttatga cctccttttg gtctgaaata cttttgnaac 1260
agaatttctt ttttttaaaa aaaaacagag atgggggtctt actatgttgc ccaggntggg 1320
gtcgaactcc tgggctcaag cgatccttct gccttggcct cccgaagtgc tgggattgca 1380
ggcataagct accatgctgg gcctgaacat aatttcaaga ggaggattta taaaaccatt 1440
ttctgtaatc aaatgattgg tgtcattttc ccatttgcca atgtagtctc acttaaaaaa 1500
aaaaaaaaaga aaaagaaatg gataatttca tctactgcct ttacttgggg ttaatgtgat 1560
tcttaaacac cttcatcatg gaactctcag agtgggggtcc gttttgggtt cctggtggtg 1620
ggttttgaag gataagggaa agcacatttt gagcatgtct gggtagcatg gtgcggatgc 1680
ttgggaacca gaactgtttc agaggaatct aaagtctgat tttagttttc agagacacag 1740
cttgttgtaa aacatgagaa gacatgattt ctaggactca agcagcaagc caggattcta 1800
ggttggctgc tgtgtcatct ttgaagtcaa gacaaagctg ggctcgacct tcaaggggtcc 1860
tcgttttgat aatacttcag aataggggaa tcattgtgat actactatgt agaaataaaa 1920
cctagacctt gagcgaacat ctgtatattg gttgaaaacg atagtggtaa ccattgatcc 1980
cccttcattt gatgtttgga aaattccagt aattatcatt tttgcaacga atatggatac 2040
cacatagtac tttggtgtta cctgcttttg aaaaataaag tctttgggtc acccggtgaa 2100
ctatttatga gttcttttgg tgtgaagaaa gggctcatgt tgcattttca gccattgcta 2160
caaagaacct ttatttggtc agtaacggta gaaaatcctt cccgattaaa aacttcagac 2220
ttgctgaata tcctgcaatg tcaagatgac cgatgttgag ttgggtggat ttgctaacga 2280
gtcagatttg aacatgaggc tattggaacc caataggcgt cattgatggc ggcaagccat 2340
agctttcaag ttttaataaa atgcacaaaa garaaaaaaa aaaaaaa 2387

```

&lt;210&gt; 403

&lt;211&gt; 4062

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (111)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (4061)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 403

```

caaaccgaag tgaacgggca cgtgttcatt gtggacgact ttgaatcttt tgagaagatt 60
cgaagacaat cttattacat ttgtygtga aactgccact tcaagttgtc ntctcattat 120
ttggatggct acacctcacc aggttttaaa atgcttgaag catacaacct gacagaaaag 180
aattttgctt ctgtacaagg agtatctttg gagtcagggt ctttccccag ctactcagca 240
tacaggattc agaagaatgc gtttgtgaat cagcctacag cagacctaca ccaaaatgga 300
ctccctcctt catacacgat tatattatta ttcagacttc tcccagaaac tcccagtgc 360
ccttttgcaa tttggcaaat cacagacaga gactacaaac cacaagttgg agtgattgca 420
gatcyttcta gcaagacgtt atcattcttt aacaaggata caagaggcga ggtgcaaact 480
gttacatttg acacagaaga agtaaagaca ttattttatg gaagttttca caaggttcat 540
attgtagtga cctcaaaaag tgtaagatt tacattgact gctatgaaat tatagrwaaa 600

```

```

grcatcaagg aagctggaaa tataacaact gatgggttatg aaattccttgg aaaactcctt 660
aaaggggaaa ggaaatcagc cgcattccaa atccagagtt ttgacattgt ctgcagtcca 720
gtgtggacca gtagagacag atgctgtgat attcctctta ggagagatga gggaaaatgc 780
cctgcttttc caaattcctt cacatgtaca caggacagcg ttggacctcc aggacctcca 840
ggcctgcag gaggacctgg tgctaaaggt cccagaggtg aaagaggtat cagtggggca 900
attgggcccc ctggctcctg tggagacata ggctcctccag gccccagggt tcctccaggc 960
cctcagggac ccaatggact ctctattccg ggagagcaag gtcgccaagg gatgaaaggt 1020
gatgctggag agccaggact tccaggccga acaggaaccc caggattacc tggccacca 1080
ggaccaatgg gacctccagg agacagaggc ttcactggaa aagacggtgc aatgggaccc 1140
aggggcccac cagggccgccc gggaagcca ggctccccag gagtacagc accaagtggg 1200
aagccaggaa aacctggaga tcatggcaga ccagggtccat ctgggttgaa aggagaaaaa 1260
ggtgataggg gagacattgc tccccagAAC atgatgagag cagttgcaag acaagtctgt 1320
gaacaattga taagtggta gatgaacaga ttcaatcaga tgctgaatca gattccaaat 1380
gattaccagt ccagtcgcaa ccagccaggc ccgcccgggtc caccgggacc tcctggtagc 1440
gcaggagcca gaggagaacc tgggcctggg gggcgccag gcttcccggg cacaccaggg 1500
atgcagggac cccctgggga acgaggtttg ccaggagaga aaggtgaaag gggtagtggg 1560
tcttcaggac ctggggggct gcctggcccc ccagggtccac aaggagaatc cagaacagggt 1620
ccaccagggt ccacaggttc aagaggtccc cctggcccc ctggccgtcc tggaaactca 1680
ggtatccgag gacccccagg tcctcctgga tactgtgatt cttctcagtg tgccagcatc 1740
ccatacaacg ggcaaagcta tccaggttcc ggctaacaca ttttctaagt cgccagtgtc 1800
gcttacagtt tgaatacatg aaaatcctgt ttctgagatg tttgcgcacg tgcttattag 1860
gaaatgagtc tgtatggaaa tctcaccaca gataatgggt aacgaaccgg gtcgacatca 1920
caaaggaggg tggagactct ttttactaac ttgaatgaga caaaagcagt ggtgtcagtt 1980
tataatcctg atgcatttca gtaataatgt agaaaaacat tattttaaaa aagttccaac 2040
acacagccat gaggagcctc agttttgaaa gaggtgcata ataaaactac taaccagagg 2100
agtctatgcc attttaagaa aaacaattaa cctgggttaa gagaaatgtc ttatgtaaat 2160
aataaactaa ttgtggcttg taaatgattt gtatgtgatc ctgtcgacta aaatcactta 2220
acaattctac aataagcttc tgcacaaag cctgcgcgtt gctctatgcc ggaataacac 2280
caaatggaat ctctcatctt cttgcttggt agcagtggtg ctgattcagg gcatctgtct 2340
ttttgttact tttttgtcgg tgtcctctca tttgggtttt gtaactgcaa ttttcaaacc 2400
aaagtttaaa atcacctttt cttcctgttt tgctgtagtc actgggtgtt ctcaccacc 2460
agctgtaact cagtttgtgt gaggtacagc cacagaagat gtcagtact gtatattacc 2520
tggtgatagt tgcttttcac cccccaggtt cagtttctag gagccaatga aacttcccc 2580
cacctcctca tctttccaag ttgttctttg aattgaggag tttgaaggca taaacagtta 2640
cttggggatt tgcgaaaatc ctacttagtt actgcgttta cagttccttg gccagttct 2700
tgacccttcc caagtatttg tgcaatgatt gtgtttactg ctggattttt gaaggtttt 2760
tttttaaga aagtgccatt tcattatttg attatacca aattatctgg aaataattgg 2820
gacattgtaa cttatctatt tatagttatg agattaagac tggagtggca tcaccgcggg 2880
tgatgattta gcttttgctg tgtgtgtgtg tgtgtgtgtg ccttccaaat catgccataa 2940
ttgtaatgtt gaatcggaca gagccttacg tgcccgaggg cggggcctac ctgcctgagc 3000
gcgagccctt catcgtgccg gtggagcccg agcggacagc ggaatacag gactacggcg 3060
cagacgagcc tgcagaggag cctcctgagc cccaccggcg ctggcggcg gccctgcccc 3120
acggacccgg gcagtgaacc agagatcacg cgccgcgcgg cgaggcttgg gggaggtgtt 3180
gaaattctca tttacaggtc agatagagca gtgtacgtct tttctgaggt gtttcttcca 3240
gcgttgctca tccaggagta cctttcttga ttgtagagaa ccttgtttct gcaggaagcc 3300
tagctccaag cagcagttct gtagacattt ttgcctttgc ccttgaaatg cttgcaaaat 3360
actttgttaa caaaagctgc aaagagagaa catgccgtgt gcctttagtt agcacagcgg 3420
gcagcctcag tgaaactctt aggttaagca gtttaagtc ggaaccaga gctgctgtgt 3480
atttcgagcg ggcagtttat cttttgctat acttattttt aattcaatta caccagatt 3540
caaataattc cctcctaaa accaaaaagg agggaaacgt caactccatt gcaattactt 3600
atcttcctct tctatctctg ttatacgccg ggcatagaa tgctcgata catctcttta 3660

```

## 281

acaaccacaa accttaagcc atgtagatga agttagtgca tcaacgggat acagttccat 3720  
attgccttaa acctccttgt tttagacaca ctaacattta taccaaattg cagattattc 3780  
tgcagagagg gaattgcatg tttgtgttgt atatttagta tgaacttttt tcagaatata 3840  
atatttctta gttatcaaaa gtagttggaa aacatttgca agactatgaa catagaattg 3900  
ctgcttttat attttaactg cagattgtga atttcaactgc cttatattat ttatttctga 3960  
aacaaaagag gcatttttca ataaaactac tgaaaatttg aaaaaaaaaa aaaaaaaaaa 4020  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaacaaaaa na 4062

<210> 404

<211> 861

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (734)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (746)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (767)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (769)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (820)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (849)

282

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (854)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 404

```

ccctcactaa  nggaacaaag  ctggnngctcc  accgcggtgg  cggccgctct  agaactagtg  60
gatcccccg  gctgcaggaa  ttcggcacga  gtgaaagatg  agtggttgg  gaagtttaat  120
ggttttcaaa  tgctttttt  ttcagtcttc  aaataagtgt  ttacgtagaa  gcaccatata  180
tgaaacaggt  gacagtggac  cagtctgaat  gaaatgaggg  ttggcaggcc  tgagctccaa  240
aaccttctga  ttgcccaagc  cctccttgtc  ttgcttggat  tatctccaca  caaatggaga  300
aactggacaa  ggtggtcatg  gaggtccctg  aaagctcaaa  gactttctca  ttccaggatt  360
ccccatgttc  atatgccagc  atggcatggg  ggtgctctgt  agtcaagcag  ggtcctttgg  420
ggggcttagg  gatggagcca  ggaaatggct  ctgggactca  gcgggtgtcc  agagtctcat  480
cagcagggtt  tctttacttt  cactgagtgg  ctggtgcctg  cacactgagt  tttgcaggct  540
tactctcaca  gagtgagctt  cctgcaggcc  cccactgca  acccctttcc  ttcttgagc  600
tgtgtgctga  ctggtgccgt  gagcacccca  ggccctctcc  ccatgctgct  gatggtcagc  660
tttctctgca  cgctcgtgg  tgccacagtc  aacgctgata  aaaatgctga  tgcagattgc  720
ctgccaact  tgcnagtgt  ggcacnggac  ccagcaagcc  caaaacngnc  accttgaaa  780
gtgggttggg  gcttgaatta  attggcaatc  aatcttccan  ttgggcccta  actcgggttc  840
ctttaaaang  gccnttattg  g

```

&lt;210&gt; 405

&lt;211&gt; 1030

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 405

```

cgcgctctgc  ctgcagagag  ccaggccgga  gaagccgagc  ggcgcagagg  acgccagggc  60
gcgcgccgca  gccaccacc  ctccggaccg  cggcactgct  gaccgcccat  cgccatggcc  120
cgcgggaaag  ccaaggagga  gggcagctgg  aagaaattca  tctggaactc  agagaagaag  180
gagtttctgg  gcaggaccgg  tggcagttgg  ttaagatcc  ttctattcta  cgtaatat  240
tatggctgcc  tggctggcat  ctccatcgga  accatccaag  tgatgctgct  caccatcagt  300
gaattttaagc  ccacatatca  ggaccgagtg  gccccgccag  gattaacaca  gattcctcag  360
atccagaaga  ctgaaatttc  ctttcgtcct  aatgatccca  agagctatga  ggcatatgta  420
ctgaacatag  ttaggttcct  ggaaaagtac  aaagattcag  cccagaggga  tgacatgatt  480
tttgaagatt  gtggcgatgt  gccagtgaa  ccgaaagaac  gaggagactt  taatcatgaa  540
cgaggagagc  gaaaggtctg  cagattcaag  cttgaatggc  tgggaaattg  ctctggatta  600
aatgatgaaa  cttatggcta  caaagagggc  aaaccgtgca  ttattataaa  gctcaaccga  660
gttctaggct  tcaaacctaa  gcctcccaag  aatgagtcct  tggagactta  cccagtgatg  720
aagtataacc  caaatgtcct  tcccgttcag  tgcactggca  agcgagatga  agataaggat  780
aaagttggaa  atgtggagta  ttttggactg  ggcaactccc  ctggttttcc  tctgcagtat  840
tatccgtact  atggcaaact  cctgcagccc  aaatacctgc  agcccctgct  ggccgtacag  900
ttaccaatc  ttaccatgga  cactgaaatt  cgcataagat  gtaaggcgta  cgggtgagaac  960
attgggtaca  gtgagaaaga  ccgttttcag  ggacgttttg  atgtaaaaa  tgaagttaag  1020
agtgattcca

```

&lt;210&gt; 406

&lt;211&gt; 2428

## 283

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 406

```
ctcgtgccga attcggcacg aggagagaac tagtctcgag tttttttttt ttttttttgt 60
atgaaacttg gaggcttaca ggtatagaca gctttcagct acagcacatt ctaatttttt 120
atthttgtta gttcttttgt attcacttct ggtctcttta agactgtttt aaaagaaatc 180
aatttaggga accccagtta tataatataa actttgtaat ctgagagaaa aaatgtatag 240
taaactctaag tcttgatttt taactttcta ttgtaaaaaa taataatata cagagttaa 300
tagaagggtga tgttttggtt ttgttttccc agaggctgcc atatggtctt tgagtacggg 360
gatgtcccaa actggccac caatgagcat ggcggctccg gccaggaatg ccagagttag 420
cctcccaggc ttgcgggtgg acatgcctgc tccctgccag cctccagtgg cctggccagg 480
ccytcccag cctgtctgcc ctcccagggt gtggaggagt ctctggggcc caggaggatt 540
ccctcccga gactgcacg gtgctccctg ctacgcgtt gtcacagtta gtccggaaat 600
gactgaaacc aggcatctc ccggacctca gcgtggggga gcctccaggc agacgctggg 660
tatggagctg tgggtggttc tgtcctgtat ggtggccagt gctttctgcc agcatttctg 720
gatggatata gggactatca ttagtatcct aatacacggt gattttaaaa caaccataaa 780
attgattcag agtccactga cccttacaga ttaggtata cccttactgg agagggaact 840
ctgatgagga gatgctggta aattatcatt ttttaaattg ctggtgagtc tgacacttgg 900
tgagttttca gccagtttgt taaactttta attaaagttt gtttataata aaaatataaa 960
tggatttgaa agtttccatt ttttaaagtt accctcgttt tcaaaggtat tttctaaaca 1020
gatctttaat ggactattta aaccgaattt aaggaaattca cacacgacag ttgacagggtc 1080
ttcacgcagg ctggttggtt acgtgctgcc agcacagggc tgggtgatac gtacacccta 1140
agccgggggt gcctgggggt gggggggcgt ccttgcaatg cccctccagc cacagggcag 1200
tgaggtgctg cctgtgtgag ccgtcggggg agcggccggc tgtgggggca gcgcacagga 1260
gcatcgtggg gcctttccct ctccgctggt tctctgtgac ggtggcgctc gctcgcctct 1320
gctcctttca tctagaaaga agccactgac cctgacagcc cacggcgggt aactgagca 1380
gctgcattgg tgctgtcact tttttaaggc tttctgtcca gacttcaaca ctggtttctt 1440
ttcagagttt cgaaggatta atgacttctt cagcgccctt gctggcgggc tgagggtgac 1500
agtcacgtcc gtttcttctg tattagaagg ctgcggtgat tcaattagat tgtccactg 1560
ctgagacctg tagggcagct tctaacatgc ttttttcaag gggagaggag tagtgacaag 1620
tcgtgtgtcg gaattggatt tgagaacact ctgaatgacc cctggaggcc gagggggcag 1680
gcttcgggcg tgaactgaac tccagacccc tctttgtgtt gggcagtgct atcttgctta 1740
caaactgtaa gacacatttt tttgtgtgtt tgtttttgtt gttgttcttt tgcagactc 1800
acgcctctga cagtcttttg ggaaagagta acaccacat acagaatttg tcacatccag 1860
agtagcactg ttcccttaata ctggcataat gcttccagga agtttttctt ttttatattt 1920
aaaatgttac ttttctgtat gatgtgcatg caagtttacc gtaacttttc ttaaactttt 1980
tagtgccgtt tctagtatat tcctgtaaat gtcagttact gaaaatgagt ccaatgtaag 2040
tagtttagct tgtttattgc aatgctggcc tcaacacaac agaataaaaa tggtagaaaag 2100
tactctttga tgtttctggt aatcatggac cttctcctg gggcatttgt tttgttttca 2160
taataaaaaa caaaaaaaaa aaaaagactg tttttttttt gcattttcct gtgctttctg 2220
tggggggctc cagcctctct cctggagcct ggaaatgtct ggaagcacct ggtctggaac 2280
agccttact ggtccacagc aagggtgctg agtcccccac acttgacatc ctgtaactct 2340
tggcaaaaac acccagagca tccaaaaggg gccccaaaaa accatttaaa ggcaggatgc 2400
agtggctcgt gcctgtgatc acagcacc 2428
```

&lt;210&gt; 407

&lt;211&gt; 2047

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens



284

&lt;400&gt; 407

```
ggcacgagat gaaatgggcc acaacttttg aatgtttcat gacgactatt cttgcaagtg 60
tccttctaca atatgtgtga tggacaaagc actgagcttc tatataccca cagacttcag 120
ttcctgcagc cgtctcagct atgacaagtt ttttgaagat aaattatcaa attgcctctt 180
taatgctcca ttgcctacag atatcatatc cactccaatt tgtgggaacc agttggtgga 240
aatgggagag gactgtgatt gtgggacatc tgaggaatgt accaatattt gctgtgatgc 300
taagacatgt aaaatcaaag caacttttca atgtgcatta ggagaatgtt gtgaaaaatg 360
ccaatttaaa aaggctggga tgggtgtgcag accagcaaaa gatgagtgcg acctgcctga 420
aatgtgtaat ggtaaactctg gtaattgtcc tgatgataga ttccaagtca atggcttccc 480
ttgccatcac gggaagggcc actgcttgat ggggacatgc cccacactgc aggagcagtg 540
cacagagctg tggggaccag gaactgaggt tgcagataag tcatgttaca acaggaatga 600
aggtgggtca aagtacgggt actgtcgag agtggtgac acactcattc cctgcaaagc 660
aaatgatacc atgtgtggga agttgttctg tcaagggtgg tggataatt tgccttgga 720
aggacggata gtgactttcc tgacatgtaa aacatttgat cctgaagaca caagtcaaga 780
aataggcacg gtggccaatg gaactaagtg tggcgataac aaggtttgca ttaatgcaga 840
atgtgtggat attgagaaag cctacaaatc aaccaattgc tcatctaagt gcaaaggaca 900
tgctgtgtgt gaccatgagc tccagtgtca atgtgaggaa ggatggatcc ctcccgactg 960
cgatgactcc tcagtgtct tccacttctc cattgtggtt ggggtgctgt tcccaatggc 1020
ggtcattttt gtggtggttg ctatggtaat ccggcaccag agctccagag aaaagcagaa 1080
gaaagatcag aggccactat ctaccactgg caccaggcca cacaacaga agaggaaacc 1140
ccagatggta aaggctgttc aacccaaga gatgagtcag atgaagcccc atgtgtatga 1200
tctgccagta gaaggcaatg agccccagc ctcttttcat aaagacacaa acgcacttcc 1260
ccctactgtt ttcaaggata atccaatgtc tacacctaa gactcaaatc caaaagcatg 1320
aagcaacagc taagcaagaa ctaatggcta aattatcaac ttggaaaact ggaaaatctg 1380
gatggcagag aatatacta tctcaccagt atttgtctc gactcaagaa ggtaacatt 1440
ttctgattca tgttagactt tgaagagact aaagaaaatt ttcaagagga acatatgcct 1500
gagaaccttt gcatgaattt aaaatttcaa ttatccattc ttataagaag gaagatgatt 1560
gtaaagaaat atctccgaag ttaaaatctg taataggaat tgattcattc tctaataaaa 1620
acaaaacata aaaacatcac actaatcttg gaggaataag aaaaattgta catccattaa 1680
atgtacaatt gattgcaaca tcttgattgt tttaaccatt aacttgtcaa attacaatca 1740
cagttaagaa aatgatgtaa aattctgttt tgtggatctc tttcctagat tagcttctga 1800
aatcattatt agctatatca tttgaggttt tctacaattt ggtataacta agaattttaa 1860
aatgttttat catatatatt tgtataatta attactggca tgggttaaagt ggttttctact 1920
ttttaaatgg agaaaatttc agttaaatat ataggataaa ccagggttgcg aactggtgac 1980
ctgtaggcca tgtttgcact gcaaatatat ttggtctgaa tgatattgaa aaaaaaaaaa 2040
aaaaaaa
```

2047

&lt;210&gt; 408

&lt;211&gt; 892

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (21)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (33)

&lt;223&gt; n equals a,t,g, or c

285

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (855)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (868)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (891)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 408

```
gaatatccct ttaagctggt ncgccctgcag gtnccgggtcc ggaattcccg ggtcgaccca 60
cgcgtccgga tgactgtaat tctccttggt accgacgaga gatcattgga agctgccttc 120
taacactttg tgtagctctg tggagttgga ttttcttaag gtttaaaaag aatcacagct 180
tcggaacttt taactgaaaa tgagagacag aagccacagg ggaagcaaag caaataggat 240
tttcaatata aatatcagtg tggaaaaata acctattctg ttgaatttag tgttcatgca 300
cttgagaaca acattatttc catttactcc gaaaatcctt ctgtgggggt ttgagaaagt 360
gaatgttgca gacatgttct gttgtgttgc actttatcct gtgtttatgt gtatgtgttt 420
ttagattaat tcaagttgtg tgctatattt cttgtataat ttacaaagt acacaaaata 480
taaagagcag taaacttgtc tgaaagtttt tggcaaagga aggtaacttc aatgtaatag 540
cttcctttta gagtacagga aaatgcattc tgtaatgaag tggggcccat gtaattgttt 600
atattttcag ttttaagcag gtatagtgcg ggcttggttag gaatgtgtgg aagggaagat 660
tggaagtgat ttttcctctt ttaaaagtaa acaaaattct tcaaatatgc cctagttaac 720
tatttcagca taccattttt acttggttaa cagtgtacat tttgataacc tatcaggaat 780
gaataaaagta tttttattta aagggtgaaa aaaaaaaaaa agggcgggccg ytytagagga 840
tccaagcttg cgtangcgtg caaacganat caggagtcga tgagtagctt nt 892
```

&lt;210&gt; 409

&lt;211&gt; 696

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (675)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (676)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 409

```
ggagtagttt acagctattt ttttttctta ctggtaatct taactaatat gattcccttg 60
ttagagagcc tctcactccc ccaccccaa aaatgtctac tattcatgac agtaaccaat 120
```

## 286

```

tattctggac aaattgcttc tttttaattt gagctatctg ccatggactt tctaaaatgg 180
aaacacagcc tgagtgtatc ttagggagag tttgattgaa aaaatccaaa tcactatcca 240
tatagatcat ggatataaag agatacctga tttttattaa aaagatactt tttcaaattt 300
aagagttaat cttggaaatt tggacaagt aaaggggcaa gtaaaccttt tgatgaaata 360
taaaaggaac tcattgcatg aagttgacta tcaaattctg tgatgtgtgg cttcttaaaa 420
atattctcag tgtcttttgt gtgcgtgcag catgtacatt tgatgttatg tgaatgttga 480
gttttttctt ctaattttca cttcagcagt gtttagggct tcagatgcct tattccagtg 540
tgaacagaaa aagttcatat tttatgtggg taatgctttg atgtgtcaca taaagagtag 600
ttttagtaaaa atgttggcac aattttaact tcttagtggc tgtgacatta tatattatat 660
atataraaac tatannaaaa aaacaaaccc gggatt 696

```

&lt;210&gt; 410

&lt;211&gt; 1885

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (741)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 410

```

agcaagggaa tgaccctctt catcgctctt cctaattcag tcctcacaac agtcctttta 60
caaatgggac aacagggttag aggaagtcag gcagatttcc agcatcatag agagtaaagg 120
accaggggaag gatcaggatt caaggactgc acccaggctc tgcttccakc ttgctgtgtg 180
actttgggta attttgttcc cttaggggaac tgagctttct catttgtaaa tgcaaacagg 240
ctgttgggag gatcaaatga gatccagggg tgaaaacagc ttagtttact ttcaggaatt 300
taccacgcg gtatataaag gcaaaatatt attatagtca ggtgattgta gattgaggaa 360
cccatttcct cattctgcaa attgcaaacc tgagggccca aagagggaca ggggcttgcc 420
caggtctcag caggctgtga gcaagagcta aagcctaate ctctgcctt tgggcctgga 480
gccttccttg taccacaggg gtcagtgtct ttgttggata caggcttaga ttgactgact 540
gtaccctgag aacctagggg agtcctgtt cccaattctt ctctacccc caccttggcc 600
tgatggagga agaccctgct gtgttgagat gagcaccaga gccaagaagc tgaggaggat 660
ctggagaatt ctggaggaag aggagagtgt tgctggagct gtacagaccc tgcttctcag 720
gtcccaggaa ggtggcgta ncatctgcag ccgcgtcgac gttgtcggag cctccgcgga 780
ggacccagga gagccggact aggaccaggg ccctgggcct cccacactc cccatggaga 840
agctggcggc ctctacagag ccccaagggc ctgcggcggc cctgggcccgt gagagtgtcc 900
aggtgcccga tgaccaagac tttcgcagct tccggtcaga gtgtgaggct gaggtgggct 960
ggaacctgac ctatagcagg gctgggggtgt ctgtctgggt gcaggctgtg gagatggatc 1020
ggacgctgca caagatcaag tgccggatgg agtgctgtga tgtgccagcc gagacactct 1080
acgacgtcct acacgacatt gtagtcgca agaaatggga cagcaacgct attgagactt 1140
ttgacatcgc ccgcttgaca gtcaacgctg acgtgggcta ttactcctgg aggtgtccca 1200
agccctgaa gaaccgtgat gtcacaccc tccgctcctg gctcccatg ggcgctgatt 1260
acatcattat gaactactca gtcaaacatc ccaaataccc acctcggaag gacttgggtc 1320
gagctgtgtc catccagacg ggctacctca tccagagcac agggcccaag agctgcgtca 1380
tcacctacct ggcccagggt gaccccaaag gctccttacc caagtgggtg gtgaataaat 1440
cttctcagtt cctggctccc aaggccatga agaagatgta caaggcgtgc ctcaagtacc 1500
ccgagtggaa acagaagcac ctgcctcact tcaagccgtg gctgcacccg gagcagagcc 1560
cgttgccgag cctggcgctg tcggagctgt cgggtgcagca tgcggactca ctggagaaca 1620
tcgacgagag cgcgggtggcc gagagcagag aggagcggat gggcggcgcg ggcggcgagg 1680
gcagcgacga cgacacctcg ctacacctgag cgccgcaccg cttcaggggac ggagacagga 1740

```

287

ccggcgagcc ctggggcggc ggccgctcct gcactttctc ccctccccc cccggcacct 1800  
 ggtggcaccg ggccaggccc aggcgggtgc tgcagcctgg ctggacagag ccccaataaa 1860  
 cgatcccaca gcctcaaaaa aaaaa 1885

&lt;210&gt; 411

&lt;211&gt; 584

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 411

gcaccgcct cggcctccca ggggtgttggg attacagggtg tgagccactg cgcttggcct 60  
 aaacaaactt ttgaaaagc tgtttctaaa agattcctta aattcagata tgacagctaa 120  
 ttacctcatc ataaattact ttataactaa ttgtttccag ggttttagag tagttgaatg 180  
 tttatttcac aaggcaccct aaattctata gaaataaaac ctcagatgag tctccttctt 240  
 agagtgttac aatgaatggg agtttacaac ttttatgtgt catgtttcca acagctgtgt 300  
 ttggggtggg cactggcagg aggggaccgt atctcagaat ggcacattat ttctatttta 360  
 cacatgagca aattgaggca tagagagtta gataacttgc ccaggttaca cagattgtaa 420  
 gttgatgaag ctgggatttg aatcttcaca tgtgtgtact tataaatata aatgtaagga 480  
 aaactctagt gagtccacct cttatattga gttattactg tgtgagtgcc aagtwctgtt 540  
 ttagatgctt tacatatact attttgttta atatcctttt taaa 584

&lt;210&gt; 412

&lt;211&gt; 1412

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 412

ttctgtctca aaaaaaaaaa aaaaaagggtg tgcccaggcc cctagccatt gccatgtgcc 60  
 cagccagaga gccaaattag agggctggct tccctatcac acagaataaa tgctagtgtc 120  
 agccaatgat ccctttgtct ttaatgtata gaaaatactg ttgttccttt tgcattttcc 180  
 agtgacatct gttttctaaag cagctccttt ctagggagga aaccaaaggg gctagggtta 240  
 gaccctaata gaaatgtttt ttctaacttc tggtagtctt ggaagtgtca cattcacagt 300  
 ccacccttgg gagtggcctt gtggagctgg ggacaagggt ttgtttacta catagtgcac 360  
 atgataaatg gccttaaaact gtgattcctt ctggtaggat aagttataat aaactgaccc 420  
 taaagaatgc aatggccttt aaactgcagt tactgtgttc ttaatgaagc aatacccaaa 480  
 gctctgttct tttggagcac ttgaggggag cttgaatgaa aggtgcagat aagagcagta 540  
 ccttgatctt atgctttctg agtgcctctg cttgttgcca tctgcatgga tgagtgaatg 600  
 cttctatgca cgaggagact caagccaact cagagtctgc tttttccaac gctcttccca 660  
 ggtttctttt gcaaagcttg gtcatttggc ccaggctctc ctggaaagtg gagtacatgt 720  
 cactgactag ggtggcgtgg tgtctttacc cttaacatta agtcttggtta cctcagtgat 780  
 gtgaagccaa tgggttgaat tataaaaagc atccttgctg gttcttcaca ggacactgga 840  
 acccaccctg tcaattcagc tagcatgtcc acacagtctt gatgatccct ctctgtaaca 900  
 ggcagctaac attaagagaa gggggaaaga gaagaagaga gcaatagctt atgggagagc 960  
 tgagatctta cttcgttgac ccatattttt cccctgacca agttacctgt aaactggaat 1020  
 ttgcaagggg atgctgtgat gataaccctt ttctattgct gtaatgttca tataacctgg 1080  
 gaaactgaga gaaggggatg tgtaaataaa agcttaaaaca ttttagtaat gtgttaaaat 1140  
 gtcactctct cttaccctgt ttcccttttt tgccagatga tgattttttt atttttat 1200  
 tgtactttac tggatgactg tgaagcgatg agtattgggt tggggtaggt gtgttgattt 1260  
 tgagagtgca tgttaagaac tgaaggggaa ctacttgaga tgacttaaga agcatcccat 1320  
 gcaaatatct tgttttgccc taataaaata ttcagaaaga taaaaaaaaa aaaaaaaaaa 1380  
 aaaactcgag ggggggcccg gtamccaatk cg 1412

288

<210> 413  
<211> 364  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (363)  
<223> n equals a,t,g, or c

<400> 413  
agctctgttt ctgatagagg tgggtggggc tctcatccct agatcctaac ccttttagtat 60  
gctggaattc tactcttcac ttactgcatt gactgttggt gattagttat tattgcaaag 120  
cactgtcacc ggcctcaggg agtttatgtg taatagaatt aaaaataata gctgtgtata 180  
acacttagct caagccacgc atgtgtgagg catttggtat gtatctgaat taattctcac 240  
taaaattcag caaaggactt gatagcctct cccgccttt tcaataaagg atgaatgaag 300  
gttgaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaacccc gggggggggcc 360  
ccnt 364

<210> 414  
<211> 1333  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (1140)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1196)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1210)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1246)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1285)  
<223> n equals a,t,g, or c

<220>

289

&lt;221&gt; misc feature

&lt;222&gt; (1287)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1306)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 414

```

cagggcagga aagtgacatg gctaggtggc tcttacctg ccttccgcct ctccacagtg 60
tgacaagctg gctgctgact gtgcccacga gctgcggcgc catgggggtca gctgtgtgtc 120
tctgtggccg gggattgtgc agacagaact gctgaaggag catatggcaa aggaggaggt 180
cctgcaggat cctgtgttga agcagggttg caaggggagg gcgaaggaag cagagaacag 240
gggagtcggc ctctgcatcc tcaataacaa gatcagatac tcccactcac caggtgctta 300
ctgtggcagg tgcagggctg agcatgggac acacattatt tcctttaatc ctgtaagggg 360
gataccagct ccattctaca gatggcaaaa ctgaaaccca gagagggtta gaaacttggt 420
gaaggtcaca tatgtcctaa gtggaaaggc tgtctagctc caaagaccat gcacttgacc 480
cccacaccag ctagcttaga aggtccaaac actatattggc actaccagat ccttccactt 540
agcaaagaca gcagatcctg gtgccagggc acagggctca cctggatgtg gggaggagtg 600
gctctggcac ctgccaatatc tttgggtcct acaggccctg cttgaggtct ttggcctctt 660
tggtcttttg tctttttctc ctggaacaga agttgaaatg gggaggagac ctgggcagtg 720
ctcttggaat ttaacccttc acttctctgc ccctgtgttt cagttcaaact cagccttctc 780
atctgcggaa accacagaat tgagtggcaa atgtgtggtg gctttggcaa caggtgaagt 840
ttgggggcag ctggaataaa gaaagggcat ggaggatgtg tagtgcggta gcatccagtg 900
cccagatctg gctcgggagt tggttgagga acatgtcatt cttttctctg ctttttgagg 960
ccaaggggt cagcattccc agtttgaggt ctgagagcct taggagcagg ctctgggaa 1020
gtgtggaaaa agtccaaggc ccaagagaaa gagctctcca gggatcctga gctccagggc 1080
tctcarcagt gccctgtcca actgggccca aaccttgtca ctctgcatac tcccctgcyn 1140
gccatmwcca cctgtmtgtg tgcccgcaga tcccaatatc ctgarctga rtgggnaagg 1200
tgctggcatn ctggggacct tgcttcgacg ctatgggect tcgggnatgt gggaccgggc 1260
cgccccggtc caagaactat ttggncttt gaacctctgg gtccntttta acaacgtggt 1320
tcccgggccc tgg                                     1333

```

&lt;210&gt; 415

&lt;211&gt; 3146

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 415

```

tctcttaciaa gttgaagctg catggggcct agaaactttg catcttgaac tttcgaacaa 60
cctcaagaag tagttcagtc cacatgtgtg gccactttcc ctgaggcttt tccaattacc 120
ccaattcgaa ttgcctgtgg caaggagtgt tggccattgg gaaatatcat aggtgttggc 180
ccccagtgtg gagttatgtt cataagtctt tgagttggaa acctttactt tccttcataa 240
gtccatctat tcctataaca ttcttaagaa atgttacttg ggttatggtc aacttatgtc 300
gccacaaaaga cccaccacca ccaatggaaa ccattcagga gattcttcca gccctttgtg 360
ttttaattca tcacacagat gtaaataatac tggtagacac agtctgggcc ctctcttacc 420
ttactgatgc tggcaatgaa caaatacaga tggtaataga ctctggaata gttcctcatt 480
tggttcctct gctcagccac caggaagtta aagttcagac tgctgcactt agagctgtgg 540
gcaacattgt tactggaaact gatgagcaaa cacaagtagt tttgaactgt gatgctcttt 600
cacacttccc agcactcctg acacatccca aagagaaaat taataaagaa gcagtgtggt 660

```

## 290

```

tcctctccaa catcactgca ggaaatcagc agcaggtaca ggcagtaatt gatgccaatc 720
ttgtaccaat gataatacac ctttttgata aggggggattt tggcactcaa aaagaagctg 780
cttgggcat aagtaactta acaattagtg gaaggaaaga tcaagtggct taccttatcc 840
aacaaaatgt tatcccacct ttttgcaact tgctgactgt aaaagatgca caagttgtgc 900
aagtagtact cgatggacta agtaatatat taaaaatggc tgaagatgag gcagaaacca 960
taggcaatct tatagaagaa tgtggagggc tggagaaaat tgaacaactt caaaatcatg 1020
aaaatgaaga catctacaaa ttggcctatg agatcattga tcagttcttc tcttcagatg 1080
atattgatga agaccctagc cttgttccag aggcaattca aggcggaaca tttggtttca 1140
attcatctgc caatgtacca acagaagggt tccagtttta gaaagatggt gtggaagtta 1200
ggtacaatgc agcactgaga tatatatata tatatgtgtg tgtgtatata tatatatata 1260
tacatatata taaaaaggtt tgatccatca agcttggctc atgggatctg ctgctgcatt 1320
aaatcgggaa agaaaatgtg aagatttcat ttggaatcac agaaaatgcc caaatgaggt 1380
caagatggcg agtgggtgcg agtgagaatg agtggcaaaa tgtaatgaaa actttacatg 1440
aatgcttatt taggttggtc aaagtaaaaa gggctacagg tcacagatcg tcagtgcctg 1500
agaaagaaca ttgacttact ctatatcaat tgaggggaaa gtgcagtacc gtcacttca 1560
agccttgtaa gcataaaaga gaataggctg cccatataag tcaaaggaaa atgagcccag 1620
gccttgctat gaagcagtggt gtgaatggac aatgttgaat gaatgtctgg ctcagtgatg 1680
gagagccagg ttcatctttg aaatctaggg ctcttcactc atgaagcaga ctcctagtcc 1740
tgagtgact gtgtacgaga gcgtgggtgt ggtgctgtat gtgaacgcat gcaagcttga 1800
ttcaccttca gggggctgat aacctagtaa atcatcaaaa tgagatcata agtgттаatg 1860
tacctggac atgaaaacaa agactgggtt agcagcagac attgggtttac tctgcagcct 1920
gtgttttctg tttccccctt tcccacctcc tccccccac ccaatccttt ttttttctt 1980
ttttgctttt cttttctttt tttttagttt ttatttactt tacctagtat gccttttttt 2040
agttgcttct caagtcagaa aacttttcag gaaggtttcc ctgtgcattt gcaccagatg 2100
aatgtttgat gctatgaaaa gctttccata tcatcaaac taatttgtgt agatttttgc 2160
atgaaaaaaa tcataaatat cctcctcaaat agactgtgtt gcagtacaca agttgccata 2220
atagtataaa acagtaaaat gtgcttaaaa ggccatcctt ttcattttca gagataacat 2280
aaagatcttt gcatgaggta aatctacagc atagttcatt tttagatttt gttgagtcct 2340
gtaaagaaga agaagaaaaa agtttcagtt gtggtagaat accgtgctgt gtttaaatgt 2400
tacttgtttt caaactttgt tttctatgaa aatgatatgg aaacttctaa aatggaattt 2460
ggtgcatatg tactgctgaa taaagaccga tgaagagggt tgagtagatg taaaaatcaa 2520
gtaatgggtt gaacaccttt aataatatgc ctaatctgtt caattgtttt agaacttttt 2580
tatcttagat gtaggcagcc atgaacaatc tattttgagc cacttttaggg agaaaacttt 2640
gtatttttaa aactttgcata aaagtatatg aagtggtttt tataaatttg aataatacct 2700
cagttttgag gttatgcaca ctaaaattaaa tgtgacataa attaatgtgt acaaaaagaa 2760
ctctttataa ggtggctcat tgtaggaaat cctgtgcctt cccctttgag cacaagtgtt 2820
gcatgaacaa cagtttgcta taagaaacat accagattag ccaccattag catctatata 2880
tactttgtgt ttaaaaaatca actggtaatt ctgaaacact gtagaatgga taaaaattat 2940
tttgtgatca taactctttg ttgaactaga gtatttttgc agcattcctt gtcacagaa 3000
acatgggttaa agtttaaaac tagaagcagc agaaaactag cttgtaaaat ttatccaagt 3060
agagtgcagg ctaggctgtc ttggggaaat aaacattaaa acttaaagca aaaaaaaaaa 3120
aaaaaaaaac gagggggggc ccgtac 3146

```

&lt;210&gt; 416

&lt;211&gt; 594

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 416

```

acatacgaaa tttgacaggt attgtatacc ctttggatct ttaggaatta atttttgcct 60
ctgtcactca gctttgtata ttttgaaatg gagataagta tagggaggtc ttggaaggaa 120

```

## 291

```

aattgccaga attcccaaac catgtaacac tcattgagaa ttccagatcc attatatcta 180
aagggcaagt gaaggaaaca gtattgtgaa ctgggtataa ctcccttggtt cttaactagt 240
acattcttaa tctgtgagac ccaaagggtg ataaacaata atttaagatt gtacagtact 300
ctaaacgtct gcaaaggctt agatgttatc agtatcacta gtttttattt ctgccagtag 360
ctccctttta ggttacattg ttgtcctctt tccagtgts gcatctgtcat tgggtttttca 420
ctatggcaag ttcattaaaa agcttgctcc attgttatct tcaagtaatg cccataagga 480
gatggaagat atctgagaca attaaggctt tagcttctag gcaagagaaa taacgttgca 540
ttaaatttca agtttctttc tgctagactt gaatgtgtct agccactcta attt 594

```

<210> 417

<211> 562

<212> DNA

<213> Homo sapiens

<400> 417

```

gggaaggggtt ccaagcctct aaaaatgtgc tttgtgatca ggagtgcgct ccaaaccaaa 60
tacgcgcgct gccctttcga ggccagttag ctccagcctcc aaggctttta agccacattt 120
cagcaagaga aagcgcctgag agctcgcagg ttcattaaag aaggcaaagc actggtttct 180
ctccttagaa aagtaggttt cttggcttga tgtagactgg cttgctttga tttttagtga 240
agggaatgta cgtaaaacaa aatagggtct ggctgggtcaa aggagacaag caggatggat 300
ggatggatgg atggatggat gtatggatga atagatagat ggtgtttgca tgtaaattgc 360
agagaaaaca aaaccaaagc tgattggaaa caattaattg tgggtgtctg agggggaagg 420
tcgcagcttt gggcagcttt gagaagcggg acaagagttc tgtgcctgtg tgtccagccc 480
tggagccagc cagtgcattt attttaagct cttagaagca actccttggc ccaggaatgc 540
gtgaccctg agatgggtcc ac 562

```

<210> 418

<211> 1412

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1218)

<223> n equals a,t,g, or c

<400> 418

```

gggggagccc gcggtgctg ggagctgcgg cgctggccct ggggggagcc ctggggctgt 60
accacacggc gcggtggcac ctgcgcgccc aggacctcca cgcagagcgc tcagccgcgc 120
agctctccct gtccagccgc ctgcagctga ccctgtacca gtacaagacg tgtcccttct 180
gcagcaaggt ccgagccttc ctgcacttcc atgcctgcc ctaccagggt gtggagggtga 240
accctgtgct cagggtctgag atcaagttct cctcctacag aaagggtgcc atcctggtgg 300
cccaggaagg agaaagctcg caacaactaa atgactcctc tgtcatcatc agcgccctca 360
agacctacct ggtgtcgggg cagcccctgg aagagatcat cacctactac ccagccatga 420
aggctgtgaa cgagcagggc aaggaggtga ccgagttcgg caataagtac tggctcatgc 480
tcaacgagaa ggaggcccag caagtgtatg gtgggaagga ggccaggacg gaggagatga 540
agtggcgcca gtggcgccg gactggctgg tgcacctgat ctcccccaat gtgtaccgca 600
cgcccaccga ggctctggcg tcctttgact acattgtccg cgagggaag ttcggagccg 660
tggagggtgc cgtggccaag tacatgggtg cagcggccat gtacctcatc agcaagcgac 720
tcaagagcag gcaccgcctc caggacaacg tgcgcgagga cctctatgag gctgctgaca 780
agtgggtggc tgctgtgggc aaggaccggc ccttcatggg gggccagaag ccgaatctcg 840

```



## 292

```

ctgatttggc ggtgtatggc gtgctgctg tgatggaggg gctggatgca ttcgatgacc 900
tgatgcagca cacgcacatc cagccctggg acctgcsagg ggagagggcc atcaccgagg 960
ctccccagcg cactgaatgt cccccgcgca gagcagaggg aaggcaagcg gaagacgcca 1020
gctgccccaa gcttggggcca ctgggggccag cgcctggcga tactggttgg gggcaggatc 1080
attctgcccc ttgtccacgc acccccacca gccctctcgc ttctaacaca gggcacctgc 1140
tgggggtcag ggatgttagg gacgagttcc agccctgcc a ctgccctggg gcgacccttc 1200
cctgtccctg cctccctntc tgccgcccct ctctctggac cctcagtggc tgtcccatgg 1260
ctacatcctg tgggtggggg ccctcgacag gacagcagga cggtttgtt tcagtggaat 1320
cccatccctg ggttccctg gtcccccactc ttcccaagcc tcccgggact gggacatgtt 1380
tgcaataaag gaaaggtttg tggcgccaaa aa 1412

```

<210> 419

<211> 1939

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1872)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1884)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1889)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1924)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1929)

<223> n equals a,t,g, or c

<400> 419

```

gagaagacga cagaaggggg ccgtcctctc agtggtagcg cggggactgg ctgggaagcg 60
gtcggtcgag tgtggcctgt gtggactcgc atcttgcccc aagccgggcg gaggagagct 120
caagctaagg gtgatcagcc catgacctaa acctccagac aaaataaaac ggaaaatttg 180
ctagaatcaa gaatgatgga tccatgttca gttggagtcc agcttcgtac taaaaatgag 240
tgccataaaa cctactatac tcgtcacaca ggttttaaga ctttgcaaga attgtcatca 300
aatgatatgc ttttacttca acttagaact ggaatgacac tttctgggaa caatacaatt 360
tgctttcatc atgtaaaaaa ttacattgac agatttgagg atttacagaa gtcattgtgt 420
gacccattta acatacacia gaaattagcc aaaaaaaatt tgcattgtaatt gacttagat 480
gatgccactt ttctgagtgc taaatttgga agacagcttg tacctggttg gaagctttgt 540

```

## 293

```

ccaaaatgca cacagataat caatggaagt gtggatgttg atactgaaga ccgccagaaa 600
aggaaacctg agtcagatgg aagaactgct aaagctttga ggtcattaca atttacgaat 660
ccaggaaggc aaactgaatt tgctccagaa actggtaaaa gagaaaaaag aaggcttaca 720
aaaaatgcaa ccgctgggtc agacagacaa gtgataccag caaagagtaa ggtctatgat 780
agccagggtc tcctgatttt tagtgggatg gacctctgtg actgcctgga tgaagactgc 840
ttaggatgtt tctatgcttg tcctgcctgt ggttctacca agtgtggagc tgaatgccgc 900
tgtgaccgca agtggctgta tgagcaaatt gaaattgaag gaggagaaat aattcataat 960
aaacatgctg gataatctgc ggtaccaaac tatggagcct ttaaaggctc ttatttctaa 1020
aaatctgtta ctctaagata cattttaagc ttgattatca tatgacaaag attttaaaac 1080
catctcagtg tgccctaatt ttcatcttg ggtgctttta gattcactat ttgatataaa 1140
ttcagatagg ctatttttca gtagtcagcg ttaagcctgt ctggatcaat ataaacaagt 1200
aggggtgtagg cagtcctcta ttgcatgtt tcccatgggc acaaatttca gtgacctaga 1260
tttagtttaa ataccagttt ccttaccagg aaggaaagaa aactggtaag gaaactgttg 1320
ttgttaaaat ctaggttaaa attttagtta gcacattgta actgagtaat tacatgaagt 1380
acaaacctct ctgctagctc ttcagtctac aaatcgctat gtaaataaca gatatgcttc 1440
atgattgtga ccagtcatgt tatttctttc aaattcttcc agtggtttgt ccctgtgcat 1500
ctgttaattc agttcacgta cagcagagca ttagttatg ctgtctctct gtcactact 1560
tgacattcta tagaagtga cactcgaaag aactggtaaa caaagatgaa agtgcagcaa 1620
agcaatgaaa aatgataaca ctggaagtga aattttaatc aaacataaat gaattttag 1680
aagaagtcac tgaccatggg aatgttggtc ttgctgctgt gtattcatag gagcttagtg 1740
aaggcaaact taccaacaca aataagcaaa gtggttgcaa taaagacaga tacgtcccag 1800
aggaagtgat ggtaaaaaaa aaaaaaactt tacmttaaaa grtatttaat gtgaatatrg 1860
raatattyca cnacmttgaa agnccagnc ataaagggtg gaagctggcc ccaacttaga 1920
agngtatng cagttgccg                                     1939

```

<210> 420

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (545)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (550)

<223> n equals a,t,g, or c

<400> 420

```

ggaaggctga ggtgtgcgcc tttttttttt ttccttctta gtcgtgtgta catcattggg 60
aatggaggga aataaatgac tggatggctg ctgcttttta agtttcaaat tgacattcca 120
gacaagcggg gcctgagccc gtgcctgtct tcagatcttc acagcacagt tcctgggaag 180
gtggagccac cagcctctcc ytgaataact gggagatgaa acaggaagct ctatgacaca 240
cttgatcgaa tatgacagac acygaataac acgactcacc cccctccagc acctctacct 300
gttgccccgc gatcacagcc ggaatgcagc tgaaagattc cctggggcct ggttccaacy 360
gcccactgtg gactctgagg cctctgcatt tgcgggtggt ctgcctgtga tattttggtc 420
atgggctggt ctggctcgggt tcccatgtgt ctggccagtc tctrtgtgtc ttaatccctt 480
gtccttcatt aaaagcaaaa ctaaagaaaa aaaaaaaaaa aaaaaaaaaa aatttggggg 540
gggncccggn tacccaattg ggccttttag gggggg                                     576

```

<210> 421  
<211> 951  
<212> DNA  
<213> Homo sapiens

<400> 421  
gttttctttc ttttcaaatt tgatattgtc attattttaa aatagtaagt tttctttaat 60  
agtcttttgg gacctaacat accctttctc atacaattcc taatgctctg tttatggcag 120  
ataatctgta atgttatgaa gacctatcaa aaagttttta aagtatttct gtcttcaaag 180  
gtagtaagac aggattaaat ttttattaga atagacaaat cagtgaatgg tatgcatgta 240  
tctagtgggt actagaactc aggrtcacac aatatagtag catcacgrtc tgwgyatatt 300  
tttgatcaag atgatrtaaa tggccttact tgggttttta tcgtttatca aatcttacat 360  
acaaaagagt ggaagtattc ctttacaaaa tttctaagga aaatatttct tccaatctat 420  
cacaattata gaatggatat atgtttctga aaagtttttg aaagaaagca aaagttctag 480  
aactaaagta agctgggtatt taatatcccg ttgatattta gaaaagattg ttaataagaa 540  
atggaggatg catttagtac tatttttatc cactagttca ctttcagtac agttatgtat 600  
acttgttttg attgagagtg tgacatacat gttaaatcag attagcttgt ttctttttaa 660  
tatacatata cacaaataca tataattttt tcyccytttt gttgtgcata tcyctatgca 720  
tttttaaact tttagatttg tgaatgacct atgtgtaaat ttttgttttt ataaaccaga 780  
aattatacaa gttttaatgt gtgtcaagaa cttgttccat acaactgtgg tatcgagcaa 840  
taatgttaat aacttttggg attatataaa ctatgcttaa taatttgtat tgagaattgg 900  
taccactata caatactttt ttctgtatt aaatctttta aataccaaaa a 951

<210> 422  
<211> 673  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (12)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (76)  
<223> n equals a,t,g, or c

<400> 422  
gccgaaatga antaaacggg gtaaactc cctgctgcc cctccctctc tctccctctc 60  
tctccctctc tctttnaccc tcccagggc tccatctccg cctcaggggc ttctccacc 120  
caartctggc tccattcctg gycwtctgtt ggtgacagac cccccctaa ggtgctcgtt 180  
tgggggctct tcaggcagca cctcagcctg gcacccccac tcccctgcgc agccccagg 240  
cctcaggacc ccacccctct gaggccagg ggagccctgt tcacgctggg ttctccccag 300  
gacctatgag ctctctgggt ggctggggc ttgctgtggg actggcctg ctctgtact 360  
gctatccgcc agaccccaag ggctgccag ggacccggcg cgtcytsggg ttytsgcytg 420  
tcatcatcga cagacatgtc agccgtacc tgctggcctt cctggcagat gacctagggg 480  
ggctctgaca gacctgggac ccagggcctc acctgccact caaccaaaga gtctctgagc 540  
cggcccgcga aggggactgc tgcttctttt tctaaatgca tatttttcat tatttataat 600  
ttgtgtaaaa aacacacctt caccttaciaa ggtgctgacc atattaaatg ttcaggttct 660

295

ctcaaaaaaaaa aaa

673

&lt;210&gt; 423

&lt;211&gt; 2073

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 423

```
ggtgccatcg gcacttcctc ccccgccctc ctcgagtgcc aagaagggtg tggaccagcc 60
cgcccttccc tactgggtgcc ccctcctccc cggcmaaggc gcctggacct ggcgaggacg 120
ctgcccgcgc agcggactga ttgcagagt ctgtacatag tgtatattgc tctaccgcgc 180
cgcacaccac gtctgtctct ggcttttgcc ttcttgatgc cagcctgtct caacagaccc 240
tccccgcgcc cctccccage ccatcttact gcaagcagcg tcctgaggag acagcggcac 300
gttctagctg cgtctgcggc cagcccgtgc cagtggagtg ggctccgcgt tgctcattct 360
ctccgacagg ttgtcagcct ctgtccccgc tgcacagggt cttgccctt ctccggggcc 420
tgtgccagct cccttcctc cccgttstcc tgtccccaca gccattcttg gagctgggga 480
acctggtctc aaggcaggcc ctgcagttcc acagagggtg caggtcttgc cctttggcca 540
acagatttct tgctctgcct tctagatgcc tctgagctcc aaaccagggt cagccatggc 600
ttctcattta caccaacagg tttagttcc aacagaaagg tcggggtagg ttcgtgcaga 660
gatggggctg gcaggggggc tatgggagga ttattttaac agatcaagaa aatgaagcca 720
aatcaagtga attaaattcc tcacaattat tttctttccc tgaggtttga ttggcacagc 780
agcaaaagt gaggccaccc cacttgtgtc cactgttttt agaaaaaat gaatggcttc 840
ctgccattgt ggggctggac tcttgggctt tcttgggtgg agcggagaag gggcctccca 900
cccttgctcg agttgcctcc cactggaggt caggagtcta cactgcagcc tcgggactg 960
tggggagtgc atgctgggg cctctgggtg gggaccatgg acaggccctg gtcactgtcc 1020
taaccttgt caggacaaag gtagcaagag gatctcctg cgggtgggaa ggaatggctg 1080
gggcggccag ttttgacacg cccagtgcc ctggagaaca accagggtca tctgacttg 1140
atgactgtc cccgaccccc agcccggaca cctcattccc ctcccactac agggatcaag 1200
tgacctggga agaaccgagt ttaacaccag gatgtgtttc cttagatttc ctttcctagg 1260
cgatttccag ggagagccct gattggacaa tcacatcaca gatcacactg cagtttccat 1320
gttagcactg tggatgggtt tttaatcaat aaaaactggg ggtttcttct caccgactct 1380
ccacttgccc aaactgccc aagctgggtg ttctgggaca ggccttctct ttggagccac 1440
gggatggggt gggggagccc catgggcctg ggaaggaggg tgctgtggag ggggctgcag 1500
ggctgaccag caggcagcct catctggctg ggggcggggg cggcaggagc agaagcgggg 1560
tctccgtcct tgggactgtc ctggttggtc acgggccctg aggatgcag gtgcttgggg 1620
ctcctgtgcc ggtgggcggg gggcatgctg gcctctgagc gatcaggcga ggccagcgag 1680
ggtgtgcttg caaattcaag caataagagg ggggttctct ggggcttcca gcccaggcta 1740
gaagccccc tggcttcttg cagctggaca tcagccccag gtattggggt gattttggtc 1800
atgacagtgt gcctgtccca ctgttacacg catgaatggg ggttatgggg tgggggtggg 1860
gactcarggc tggaccgacg tcctagtggg cctgatgtga aattcctgtc aaacaaacac 1920
cacttttcaa tggtttgcta ggagtatttc tgtattgaaa gtttctaatt atgcttttta 1980
aaaaaatact aaaaataaag gttcaagctg ccaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2040
aaaaaaaaaa aaaaaaaaaa aaagggcggc cgc 2073
```

&lt;210&gt; 424

&lt;211&gt; 2609

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (31)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2585)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2602)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2609)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 424

```

cccacgcgtc cggcctcccc cgcggtggcg ncggcgggcg cgggtggctgc ctggcgggctg 60
agagtccaga gccggacgtt ccgccgcttc gggctggcgg ctggagagcg ctccgggtcat 120
gtctgcccag ggggactgcg agttcctggt gcagcgagcc cgggagttgg tgccgcaaga 180
cctgtgggca gccaaaggct ggctgatcac ggcccgcagc ctctaccgag cagactttaa 240
catccagtat gagatgtaca ccatcgagcg gaatgcagag cggaccgcca ccgccgggag 300
stgctgtacg acatgtttgt gaatttccca gaccagccgg tgggtgtggag agaaatcagc 360
attattacat cagcattaag gaacgattca caggacaaac aaaccaatt tttaagaagt 420
ttatttgaaa ctcttctctg tcgggtccag tgtgaaatgt tactaaaggc cacggaacaa 480
tgcttcaaca cgttagaacg atcagaaatg ttgcttctac ttttgaggcg cttccctgaa 540
acgggtgggc agcatggggg tggccttggg swggcactat tagwggctga aactattgaw 600
gaacaagaat ctccagttaa ctgctttaga aaattatttg tttgtgatgt ccttctctta 660
ataattaaca accatgatgt tcgattacct gccaatatat tgtataagta cttgaacaaa 720
gcagctgaat tttatatcaa ttatgtcact aggtctactc aaatagaaaa tcagcatcaa 780
ggcgcccagg atacatctga tttaatgtca cctagcaaac gtagctctca gaagtacata 840
atagaagggc tgacggaaaa atcatcccag atcgtggacc cttgggagag gttgtttaag 900
atthttgaat ttgtttggaat gagatgtgaa tggcagatgg ataaaggaag acgaagctat 960
ggagatattt tgcatagaat gaaggatctc tgcagatata tgaacaactt tgatagttaa 1020
gcacatgcaa aatataaaaa ccaagtgggtg tattccacca tgctgggtctt ctttaagaat 1080
gcattccagt atgtcaacag catacagcca tctctcttcc aaggtcctaa tgccccgagc 1140
caagttccac tgggttcttct tgaagatgta tcgaatgtgt atgggtgatgt agaaattgat 1200
cgtaataaac acatccataa aaagaggaaa ctagctgaag gaagagaaaa aaccatgagt 1260
tcagacgatg aagactgttc ggcgaaagga agaaatcgtc acattgtagt caataaagcc 1320
gaacttgcta actccactga agtgtagaa agctttaaat tggccaggga gagctgggag 1380
ttgctctatt ccctagaatt ccttgacaaa gaatttacia ggatttgctt ggcctggaag 1440
acggatactt ggctttgggtt aagaatcttc ctactgata tgatcatcta tcagggtcaa 1500
tataaaaagg cgatagccag cctgcatcac ttagcagctc tccagggatc catttctcag 1560
ccacagatca cagggcaggg gaccctggag catcagaggg cgctcatcca gctggcgacg 1620
tgccactttg cgctagggga gtacagaatg acatgtgaaa aagtccttga tttgatgtgc 1680
tacatggtac tccccattca agatggaggc aaatcccagg aggaaccctc gaaagtaaag 1740
cccaaattta gaaaagggtt ggatctgaag ctctgcctt gtaccagcaa ggctatcatg 1800
ccatactgcc tccatttaat gttagcctgt tttaaagctta gagctttcac agacaacaga 1860
gacgacatgg cattggggca tgtgattgtg ttgcttcagc aagagtggcc acggggcgag 1920

```

297

```

aatcttttcc tgaaagctgt caataaaatt tgccaacaag gaaatttcca atatgagaat 1980
tttttcaatt acgttacaaa tattgatatg ctggaggaat ttgcctactt gagaactcag 2040
gaagggtgga aaattcatct ggaattacta cccaatcaag gaatgctgat caagcaccac 2100
actgtaactc gaggcacac caaaggcgtg aaggaggact ttcgcctggc catggagcgc 2160
caggtctccc gctgtggaga gaatctgatg gtggttctgc acaggttctg cattaatgag 2220
aagatcttgc tccttcagac tctgacctga gtggagacct ttccaccaga cacagctcgg 2280
gcctgtgtaa ttgtaggaga agacactcag cagtgattgc catggcacag agccgtgggtc 2340
attgttgctg ttacaaagaa gaaaaccatc tgagttctaa ctcttgggtt gcttaaaagt 2400
agttcccaag agtctgagaa gctatttcta tttttaagag tcattttttg taatttttgt 2460
aaaacaaaag taccaatctg ttttgtaa ataaatcatc ctaaaatttg aaaaaaaaaa 2520
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2580
aaaanaaaaa aagaaaaaga anaagaaan 2609

```

&lt;210&gt; 425

&lt;211&gt; 987

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 425

```

cagtgtcaca tgcctgtaaa cccagctatt caggaggctg aggtgggagg atcggttgag 60
gccaggagtt tgaggctgca gtgagctatg attgcacagc tgcactccag cctgttcctg 120
agacctcatc tcttaaaaaa taaaaataa aaagtctaag aggatacaca gaaattttta 180
agtggttacc tccacggaat gggattaggg gatcagaggt gagggaaactc atgggttggc 240
tatttctcgt tctttctgca ctgtttcaa tttttacaag tgtatgttat tgtactttta 300
aaaagattag cttggcaaca agtctagcct gaaatgggtg ctattttgac tagtctgagt 360
gaaaagtgag gatttaaatg aagtaacccc taaactcagc cagtcccatg tttttttaac 420
acttgggaata tctaattcca ttacactgc attcttcaa tgtaattttc aaagatgcct 480
tttgccctcat cccttgcttt taagtattat tatagacttt tggagactca cgaacaagc 540
aatccctaaa ttctgcacca ggaaagtatc ttggattaaa tggtttttga gaaccttgag 600
agtgtatatt ctatgaaatg gaagaaacaa gaactagaca gagtcaaaa tgctgttgat 660
cacagacaat ctctgccatc cataaggtaa atgtaataca tctggcgacc tgctgagtg 720
gaacttgcag caggtgagga aggaactctg aactctcaca atcttgtttc ttcattttcc 780
agagagaaac tcggcaaaaga gaaaaaggac atttcctcc agggttatctg aaagaatttc 840
aatgcttacc ttaaatcatg tgacattgtt tatcttggat taaaagaaaa gaaaatgtat 900
ttattttgtg catattttca ataaaatata taaaatcgag ttggtatata gtgccaata 960
ccattaatta aaaatatttt aacctga 987

```

&lt;210&gt; 426

&lt;211&gt; 1726

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (15)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (21)

&lt;223&gt; n equals a,t,g, or c

299

```

cgcacatcag cctgcatcgc attgtggaca agatgcacga tagcaacacc ggaatccgtt 540
caagcccaaa catggagcag ggaagcacct ataaaaagac ctctctcggc tcctcctggt 600
ggactgggttc atctccaaca gcttcacggg cagccgtctg gaggcggtga ccctggcctc 660
catgctcata gaggagaact tcctcaggtc tgtggctgta cgatgcatgg gaggcattcg 720
gtctggggat ctggccgagc agttcctgga tgactccaca gccctgtaca cttttgctga 780
gagctacaaa agaagataag cccaagga gaaattagcc tgagcactgt ggagttaagt 840
ggcacggtgg tgaacaag ctacctggcc aagcagggac acaagaggaa aaactggaag 900
gtgcgtcgtc ttgttctaag gaaggatcca gctttcctgc attactatga cccttccaaa 960
gaagagaaca ggccagtggg tgggttttct ctctcgtggt cactcgtgtc tgctctggaa 1020
gataatggcg ttcctactgg ggttaaaggg aatgtccagg gaaacctctt caaagtgatt 1080
actaaggatg acacacacta ttacattcag gccagcagca aggctgagcg agccgagtgg 1140
attgaagcta tcaaaaagct aacatgacaa ggacctgagg gaaccaggat tcctccctcc 1200
taccagatga cacagacaag agttcctgga gaatgggagt gttaagactt ttgacttctt 1260
tgtaagtgtt gtactgcttt ggagagtga tgcgtccaag agttcctcag attacaaaca 1320
gcagtgggtgc catttccttc cccatcttca tgttacaaac ctggaaaggc tagaacagcc 1380
attaggcgtc agcatcttga cttttcccca gcatcacaaa cagccatttc ctcgggcacc 1440
aaagtaggtt ccctttgttg gaacaattac actggccatg ccataatgtt gaataaaact 1500
ctcttcttaa aaaaaaaaaa aaaaaaaaaa 1528

```

&lt;210&gt; 428

&lt;211&gt; 2055

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 428

```

aagaggacag tgatagatgc atttkcccca ggctgtctca gaaaggctcg taaatgtata 60
ctgttgtcag aattgctgag atctccccc acttttrgtt ttrsagcag taaaaactct 120
ttccactgtg acttattttc tctctcagc agccagccac ctggtcctt gtgctgactc 180
tagcacagtg gccaggatcc aatacagatc caggggtgac cgcaggatgg tgggggcagc 240
gggttcttc acctacccca gccaccaagg scctgacgca ctgyctcctg caccttcagc 300
acatccctgt gcacagctgg aaggggtgcat ggcccgtca cttttgttca gatgggtgga 360
aacgctgatg ataccagctc ctccctkccg tgcccctgcc acggagcagg cattgtgaac 420
tggctggtgt ttgcagtccc acgtggcatg gcctccagcc caaccacag tggagactgg 480
agacagggca atgagtctgg tggggggcac gtggacatgc cccatagggg cccacccag 540
acttaacagg caaggctctg ggcattgcgc gacgcaggac tcaatgctaa agcaagcctg 600
cctggctctg tgccagggcc cctcttctga ttacacatc ccatttttac acagaccctt 660
ccttcttaat aaaggctgac agttctgttg gcagccaaga acccacacca tgaagacagg 720
gagtgagggg cttttgtgcc caactccagc acagctgctg tctggggtgt gtgagaggca 780
tgttcgtgtc tgtgcgtgg tggctctcgtg agacagtcc gaggacgggg aaattgcagg 840
gtgggtgggg cgtgaggctt atatgtggaa ctgatgcaga gttcgcctgc agacggatct 900
ggatatacac tatgtataat tgttacgtgt aatttaaaat atatctgttt gccatcgtca 960
tgagaagatt atatgtaagg ctctgaagg agaggagat gtacattctg ccaggctcct 1020
ggggacctta tccgagtcac gaaattgatg actgttgatc cagtgggtgca agaagctaca 1080
ctccatgtgt catcacgctt atgactccta atgtattttt aaggcaaaaa atgtcagccg 1140
actccatctt caccctcga tctctcagat ccagcctttc tgtgccagt cttactgag 1200
ccacaacgct ctgcctatcg ggaccggct gggcctggag tctcggggca cagttgccat 1260
ggagccctcc tgggtcatte taaaaatgtg ctgagtgcc gctgaaaacc ccacaggaga 1320
tggagtacct tggccaagct taaagagaag attttctcag ggtatttatt agtgtgtcca 1380
gcagggctcag gaagcaggat ggaaagatgc attcagactg ttaatttatt aacaaggcaa 1440
atgattttgt gtttcttgat gacagactat taagtttggg acttattttc ccatttgaga 1500
agttataata tatatttaag atgataagtt tcctgcttaa gttgtgcctt tcagcttcaa 1560

```

## 300

```

tgagtttaag gagcactaag ggtaatgata ccaatgaggg ttggttttatt atcaaacctg 1620
aatagctgtg gtttctccag taaatatattt cttctactga acatggagcc attattaaga 1680
gttgtgtgtt ttttattatg tacatttgta ttttttttg cttgtttgat gttctatttt 1740
tctaatagtt ttcttttagt ttcttaaagt tgtgatacta gatttagatt ctgatgctaa 1800
ctgcaaatca gggtgggtctc tgctgggtctc ctctgcttt ttttttactt taaggacaag 1860
tgtagtgtgc gtccaccacc tttcaaaaaa tgtgaaactg ccctgcctcc cttttttgct 1920
gacaacactg tgtacattga ccacttccta ccatacttta tgttgtaaaa tcaaaactctt 1980
ttgtggtaca ttatctcatg cttctgcaaa ttcgaataaa ttctatggct tccaaaaaaa 2040
aaaaaaaaaa aaat 2055

```

&lt;210&gt; 429

&lt;211&gt; 355

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (348)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 429

```

ggcagagcag gcaccagctc gcatggctgc tgggcattggc cattggcggg tctragtgtg 60
ggccgctcct cgctaactgc atgcagcctc ccactctgcg catgtttgct tgggcagaaa 120
atgctgagac actgtggcgc gacctgacag tcagcacttg gcagtgggct ctgtggaccc 180
agcatttctc atagcgtcaa ccacacctctt gccttggtga ggctttttcc ttccagatga 240
gctgtccttg acattctgat gtggtgaaat ggtagcagc atggactttg gaaccagata 300
gacctagata caaaccacag tctaacattg ctwaccctgt gaaccttngg ggcaa 355

```

&lt;210&gt; 430

&lt;211&gt; 2834

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (18)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2828)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2834)



<223> n equals a,t,g, or c

<400> 430

```

cngacggtgg ggtgaccnac cgcgtccgcc ggtgcacgtt ggagtcataa gacggcgctcg 60
gtgttgcagt ctgtgtcctt ggaggtgacc agggccactg caggcatggt gctagcagag 120
ctgtacgtct ctgaccgaga ggaagcgat gccacgggag atggaaccaa ggagaaacca 180
tttaaaacag gtctaaaggc tttgatgaca gtagggaaag aaccatttcc taccattttac 240
gtagattcac aaaaagaaaa tgagaggtgg aatgttattt ctaaatacaca gttgaagaac 300
attaaaaaga tgtggcatag ggaacaaatg aagagtgaat cccgggaaaa gaaagaggca 360
gaagatagtt tacgaagaga aaagaacctg gaagaagcaa agaagattac cattaaaaat 420
gatccaagtc tcccagagcc aaaatgtgtg aagattgggtg cgttagaagg atatagaggc 480
caaagagtaa aggtgttttg ctgggtccac aggtgcgca ggcaaggaaa gaatttaatg 540
tttctggtgt tgcgagatgg tacaggttat cttcagtgtg tcttggcgga tgagttgtgt 600
cagtgtctaca atggagttct cttgtccacg gagagcagtg ttgcagtgtg tggaatgcta 660
aatcttacct caaagggcaa gcaggctcca ggtggccatg agctgagttg tgacttctgg 720
gaactaattg ggttggcccc tgctggagga gctgacaacc tgatcaatga ggagtctgac 780
gttgatgtcc agctcaacaa cagacacatg atgatccgag gagaaaacat gtccaaaatc 840
ctaaaagcac gatccatggt caccaggtgc tttagagatc acttctttga taggggttac 900
tatgaagtta ctccctcaac attagtgcac acacaagtag aaggtggtgc cacactcttc 960
aagcttgact attttgggga agaggcattt ttgactcaat cctctcagtt gtacttggag 1020
acctgcctcc cagccctggg agatgttttt tgtattgtct agtcataacc ggcagagcag 1080
tccagaacac gaaggcacct ggctgagtag actcacgtgg aagctgagtg tcctttcctg 1140
acttttgacg acctcctgaa ccggttgagg gacttgggtt gtgatgtggt agatcgaata 1200
ttgaagtcac ctgcagggag catagtgcac gagctcaacc cgaactttca gcccccaaa 1260
cggcctttca aacggatgaa ctattcagat gctatcggtt ggctaaaaga acatgatgta 1320
aagaaagaag atggaacttt ctatgaattt ggagaagata tcccagaagc tcctgagaga 1380
ctgatgacag acaccattaa tgaaccaatc ttgctgtgtc gatttcctgt ggagatcaag 1440
tccttctaca tgcagcgatg tcctgaggat tcccgtctta ctgaatctgt cgacgtgttg 1500
atgcccattg ttggtgagat tgtgggaggc tcaatgcgta tctttgatag tgaagaaata 1560
ctggcaggtt ataaaaggga agggattgac cccactccct attactggta tacggatcag 1620
agaaaatacg gtacatgtcc ccattggagga tatggcttgg gcttggaaacg attcttaacg 1680
tggttcttga ataggtatca catccgagac gtgtgcttat accctcgatt tgtccagcgt 1740
tgcacgccat aaccattttt tccagaagcg tggaggaaaag attatgaaag gaacaggctc 1800
tttaaaaaag aaaacaaaaa gccagaatct tccttttttt gtttcatttg ggtttctctt 1860
tctgtttttc tttctactac cataaaaact atctcaaatc acctgaacat caagtgatat 1920
taagggtgtc atcttaagaa aaaatatcca tttttttctt aagttcggga aacaaagttc 1980
ggggaaaata cctggcatga aactgtagtt agggatacat ttcagcattt tactcacttt 2040
atccaagtta ttcattttat tcaagttata tgtatgtata attcaacaat tttagattat 2100
ggtgtaagat actccagtaa cttatctttc tgtcctttta agtgtacctg gaattctttg 2160
atztatttta ttgcatcaat gaattaaaac aaaaatcttg ggggaagaaa ttggcaatat 2220
cgtataaaaa tctgtctata ttagaacaca gtataattca gcagtaaaca ctagaatcaa 2280
atgaatagcc ttttgatca gttattaatc ttttctaact ctgcttagct gctaataatc 2340
ctgaggcata gaaattgaag aatttgtaaa aatagaattg ccttaaagga tttgaagtaa 2400
gaacataatt ttggggagag ttttttagtg attcacagta tccctcttag cattaattta 2460
aggtaaagag gcagattgat tttccctctt tcctggtaat tcctaagtaa ttaagaataa 2520
ataagttcca aaagaaattg tagctggaat ctttaataca attgtgagtg gctgtttgag 2580
ttgccccac catgtcctta gatctaact gtgtacctt attaaactac agcaggctta 2640
ctgaatggct tcatttcaga tttagttgat ttctccacca aatgcatgtc atgtattctc 2700
aataggctgt attccagca gtcaataaat gaacacccgt aaaaactcaa aaaaaaaaaa 2760
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2820
aaaaaaaaang gggg 2834

```

302

<210> 431  
<211> 2709  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (402)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2677)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2691)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2699)  
<223> n equals a,t,g, or c

<400> 431  
ggccccctcaa tgggctcctt gggggggttga atggggccgc tgcccccaac cccgcaagct 60  
tgagccaggc tggcggggcc cccacgctgc agctgccagg ctgtctcaac agccttacag 120  
agcagcagag acatctcctt cagcagcaag agcagcagct ccagcaactc cagcagctcc 180  
tggcctcccc gcagctgacc ccggaacacc agactgttgt ctaccagatg atccagcaga 240  
tccagcagaa acgggagctg cagcgccctgc agatggctgg gggctcccag ctgccccatgg 300  
ccagcctgct ggcargaarm tccacccccgc tgctgtctgc gggtaacctt ggctgtctgc 360  
ccacagsgtc tgctccaccc ctgtgtcccg ctggagccct antggctccc tcgcttggca 420  
acaacacaag tctcatggcc gcagcagctg cagctcagca gtagcagcag caggcggacc 480  
tccagtccctc actgcccaga ccaacccctt cctcagcctg tcgggagcag agggcagtg 540  
cgggtggcccc aaaggaggga ccgctgacaa aggagcctca gccaaaccagg aaaaaggcta 600  
aatccacctt taccctcctt gaccccccca agtggaggga acagatcctg gcctgagggg 660  
tcctagcctg gagcaggcgc ctgcgcccag accctggaga gccttgacct agagcctgtg 720  
ctgaggtcca gggagtgtgg agagctcctg gtgtcgagga ctgaractga raggggagcc 780  
ccctccatct gggcccttc cctttccgca ctgtccgctt tgtgaggctc agaggaagga 840  
cagtctgcaa gccgcctag gaggtccatc cccagcaaat gttttggagg tccccccaga 900  
gagcagagtg ggccatggca gaagtagggg gttggttgga cctgtcacat gaaatggatc 960  
agcacttgaa tggggagaag tggagggaga ggccctgggc ctgtccctgc ggggaaatct 1020  
tttatggaag aagggttgga cccactttac ctgcagtttc ttcccagctc gggcagatgg 1080  
cagaagggac cccttgact ttttctcgcc atccctcccc ccagcgcagg ggcacaagct 1140  
gagcttgtaa aagcccacag atgttggggg ctggagaagg ggcaggagag catcacactc 1200  
agccccagcc tcctcaacct cttggggccc cgtgatgkkg aggagagggc aggtgccccg 1260  
aggctctggc ctctcttggg gccccgccct ttgtttgcac tattggactt aggagtgccg 1320  
agggtgggga gatggagctg cccgactcag tgtgtgagtg tgtgtgtgctg tgcattgtgtg 1380  
tgtgtgtgtg tgtgtgtgtg tgtgtctgtc tgectgtctc tctcctcctg gaccaggggc 1440

303

```

agccaagggc agggataggc gcagtgggtca gatgaagcag cgccagagag gggacctccc 1500
agctcttatt tgcacctccc ccacctcacc aactttgggtc cctctctggg ggcataaatg 1560
gttaacaaac accagagcag tactccaata ttggagagtc gctgggggca cagggccttg 1620
aatcagggta gtatcctgcc tccccctccc tgaccccaaca tggctctcagg gcccccttag 1680
ggccccctac cccactgata gcttctctct tctctggcac aaggggagcc ccagggcctg 1740
ggggagggcg taagggtggg ggaaatgcca ctgcttttag caaaagcctc cctcccagaa 1800
ttagccagct tgcctcctgc accccacccc caccaaccag gggagccact aagctgacta 1860
acaactgtcc cctcaccac cagctatttc cccagggtag agtgggcaat tctcaccttc 1920
aaagagtccc cgctgcca ggcctttggc acagaggctg agtggacagt caggagagag 1980
gcgagaggca aggcgaagcc tgtgtccctg tttcagttgc actggggttg gagcccagg 2040
taggggtttc cagcttcccc aggtcccgcc cttgtcagtc tctttgcatg tgtggatttt 2100
tctgtgtgtg tttctgtttg ggtttttgtt gttgggtttt tttttttttt ttaataaaga 2160
aaagaagatg tgtatatttt tggcaacgac agaaacgtag tgcagatata tttttgcctg 2220
tgctgtctca ctgttttttt tttctgatac tgaaaataat attaataatt ctgttgataa 2280
gactttgtaa gatgttaggg agctgataat ggaggggggt gggaatcctt caaaggcaat 2340
ttcttaggca cttgcaaggg cttgggggag ggggagggcag ttgtgatgac ctcagaaata 2400
ctcacttttt attaagtcta aatatgttag aaagaaatga tagcattcag cattttattc 2460
ttcttaatat attaagctgt gtaactccct gcccacaaacc actgaaaaga aaagtaacct 2520
tcaggccagg sgcggtggct tcacgccttg taatcccaa cactttgggg aggttgagg 2580
cggggcggga tcactttaag gtccaggagt ttccaagacc agcctggggc caacatgggt 2640
ggaacccgt cttcttatcc aaaatttagc cggggcntgg ttgggcagtg nccgtaatnc 2700
ccagctaatt                                     2709

```

&lt;210&gt; 432

&lt;211&gt; 739

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 432

```

gagcccgggc ggatcccccg ggctgcagga attcattgac gacgacaagt taacgtcgas 60
caacaacggt gaggactgca agatgatggg gagctcagga gataagatgg aagatgcaac 120
agccaatggt caagaagact ccaaggcccc agatgggtcc aactgaagg ccctgggcct 180
gcctcagcca gacttcacac gcctcatcct ggacctgggt gccctctcct ttgtggacac 240
tgtgtgcctc aagagcctga agaataattt ccatgacttc cgggagattg aggtggaggt 300
gtacatggcg gcctgccaca gcctgtggt cagccagctt gaggtctggc acttcttcga 360
tgcattccat accaagaagc atctctttgc ctctgtccat gatgtgtca cctttgccct 420
ccaacacccg aggcctgtcc ccgacagccc tgtttcgggc accagactct gaacatgcta 480
catctgccc aagactgcac ctctggagtg cagggcaccc ttgagaagcc cctcaccctc 540
aggccgcctc caggtgctac ccaggagtcc cctccatgta cacacacaca actcagggaa 600
ggaggtcctg ggactccaag ttcagcgtc caggtctggg acagggcctg catgcagtca 660
ggctggcagt ggcgcggtac agggagggaa ctggtgcata ttttagcctc aggaataaag 720
atttgtctgc tcaaaaaaa                                     739

```

&lt;210&gt; 433

&lt;211&gt; 853

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (734)

304

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (758)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (767)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (833)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (851)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 433

```

gagggcactg gatttggagg gaatcccatc tccatgggga agggcctccc tgaacggaag 60
cagctggggtt aatcaccagc accccaccca actcagagtt gaccagggcg gtgacactgc 120
agaggggaat gtggtgactc accctgcgtg gtggggggag ggcagggcca tgccaggcgc 180
tctggtgccc tgtccatgaa tccttgccgc agccctgcaa rgaaagagct ggagatgcct 240
cctgtgtaca gggttararar ccaagggcca gatgggtttg ccgartcgcc cctgctagtg 300
tgggggagca gcactttctg cttgtkaarc cctgactgga accacttggc ctggagtctg 360
ggaggggcct cccttcccag cccttgteet tcctcccccg cccacaggaa ctccctgcaga 420
cccaggactt cagcaagttc caggcgctga agcccaagct gctggacacg gtggatgaca 480
tgctggccaa cgacatcgcg cggctgatgg tgatggtgcg gcaggaggag tccctgatgc 540
cttyccargt ggtcaarggc ggcgcctttk acggsaccat gaacggggccg ttcgggcacg 600
gctacggcga gggggccggc gagggcatcg acgacgtgga gtgggtggtg ggcaaggaca 660
agcccaccta cgacgagatc ttctacacgc tgtcccctgt caacggcaag atcacgggcg 720
ccaacgcaa gaangagatg gtgaaagtcc aagcttcnca acaccngct aagggaaaga 780
tctggaagct ggccgactgg acaaggaccg gcttggttga cgacaaggag ttngcgctgg 840
gcaaccacct nat 853

```

&lt;210&gt; 434

&lt;211&gt; 1098

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 434

```

ggaacttgct attggtcagg acgtttccta tgctaataaa ggggtggccc gtagaagatt 60
ccagcaccct cccctaactc caggccagac tcctttcagc taaaggggag atctggatgg 120
catctacttc gtatgactat tgcagagtgc ccatggaaga cggggataag cgctgtaagc 180
ttctgctggg gataggaatt ctggtgctcc tgatcatcgt gattctgggg gtgcccttga 240
ttatcttcac catcaaggcc aacagcgagg cctgccggga cggccttcgg gcagtgatgg 300
agtgtcgcaa tgtcaccat ctccctgcaac aagagctgac cgaggcccag aagggttttc 360

```

305

```

aggatgtgga ggcccaggcc gccacctgca accacactgt gatggcccta atggcttccc 420
tggatgcaga gaaggcccaa ggacaaaaga aagtggagga gcttgaggga gagatcacta 480
cattaaacca taagcttcag gacgcgtctg cagaggtgga gcgactgaga agagaaaacc 540
aggtcttaag cgtgagaatc gcggaacaaga agtactaccc cagctcccag gactccagct 600
ccgctgccc gcccagctg ctgattgtgc tgctggcct cagcgtctg ctgcagtga 660
atcccaggaa gctggcacat cttggaaggt ccgtcctgct cggcttttcg cttgaacatt 720
cccttgatct catcagttct gagcgggtca tggggcaaca cggttagcgg ggagagcacg 780
gggtagccgg agaaggccct ctggagcagg tctggagggg ccatggggca gtcctgggtg 840
tggggacaca gtcgggttga cccagggtg tctccctcca gacccctcc cggacaatg 900
agtccccct cttgtctccc accctgagat tgggcatggg gtgcgggtgt gggggcatgt 960
gctgcctgtt gttatgggtt ttttttgccg ggggggttgc tttttctgg ggtctttgag 1020
ctcaaaaaa taaacacttc ctttgaggga gagcacacct taaaaaaaaa aaaaaaaaaa 1080
aaaaaaaaa aggacggg                                     1098

```

&lt;210&gt; 435

&lt;211&gt; 1178

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (917)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1176)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 435

```

accagattcc ctcttgtggg tgactctaca caagatggca tttactcgcc aggtgtccgg 60
ctcccttcaa aagacagaga atgatggctg gtttcgttgt agcttgactc agtggcacac 120
cctgtgcctg acaccaggtt gacagatgtg tagggaacaa aattatgacg ggatggccac 180
acagttggct gtttgtactc attgctgcca gctgtctccc agaacagtea tctgctctgt 240
agggggagaa acaggacat gaaaagccct ggaaggttgt caggaagcaa ttttaaattt 300
ctaatatgta aacatcgagg ctttggcata ttttgaacca ttttgatgat aggaatggag 360
gtggtaggag ccaccctgat taagttcttg ttgagaataa actggtgcac cagacattta 420
cataggctga atcaatgttg atggcagccg tgtttttaac ccatgggcct aaaacagtgt 480
ccctcatacc tgtctcttgc tgaggccct gtcgcagggt agccatgtct gacttccgag 540
ccttccatcg actgctcagt ccacgtcttc agccctattt cccaagctta cctagtga 600
cctccttgac tcaggctggg tcttcatttg tttctgccac ctgcaggcca ttggtgctcc 660
ttgaataccc tgtggtgtca tcgtgactc gtgcctccag ggctttcccg ctctgacggc 720
tctgtgtttc ctattgcttc atatatgctt cttctgaatt agcatgcat atgtgacact 780
catatgttat gtatcttggg ttagttttta cagaaagatg aaagactctt aaaagggatc 840
ttggagttgt tcttgtacat cttttatata tctaagcct ttgatgggca cttgttccaa 900
wtggaaagaa aaaaaaanaaa aaaagtctta atagcgccgc agctactcct aggggggtatt 960
agcttgaagg cgcgttaacg cggactgaac actgggtccaa taaccttgca acctttccat 1020
ggaaacgaag cgcgcgtccc caaatccgga gggatgcgcc tgcgggtaag ggaggtgggt 1080
gcaaaacccg cgcggtttct ctgggccgca aagcggctgt ttccccacaa ggtgtccaac 1140
tttgcggtac tcacacttac cgtagcaaat agctancc                                     1178

```

306

<210> 436  
 <211> 686  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (364)  
 <223> n equals a,t,g, or c

<400> 436  
 gtgaaaacac cacctcgtgt acttacgctg agtgaaagac cactagattt tctggattta 60  
 gaaagacctc ctacaacccc tcaaaatgaa gaaatccgag cagttggcag actaaaaaga 120  
 gagcgggtcta tgagtgaaaa tgctgttcgc caaaatggac agctggtcag aaatgattct 180  
 cttgtgacac catcgccaca acaggctcgg gtctgtcctc cccatatgtt acctgaagat 240  
 ggagctaatac tttcctctgc tcgtggcatt ttgtcgctta tccagtcttc tactcgtagg 300  
 gcataaccagc agatcttgga tgtgctggat gaaaatcgca gacctgtgtt gcgtgggtggg 360  
 tctnctgccc ccacttctaa tcctcatcat gacaacgtca ggtatggcat ttcaaata 420  
 gatacaacca ttgaaggaaac gtcagatgac ctgactgttg tagatgcagc ttcactaaga 480  
 cgacagataa tcaaaactaaa tagacgtcta caacttctgg aagaggagaa caaagaacgt 540  
 gctaaaagag aaatgggtcat gtattcaatt actgtagctt tctggctgct taatagctgg 600  
 ctctggtttc gccgctagag gtaacatcag ccctcaaaaa tactgtctca acagctggaa 660  
 atataaaaga ttgcaaact taaaaa 686

<210> 437  
 <211> 2588  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (2481)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (2505)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (2542)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (2544)  
 <223> n equals a,t,g, or c

<400> 437  
 aattccgctt ccgttttgaa agccgcagcc tcagtcccgc cgccgcccgc tgcgtccgcc 60

307

```

cagcgccagc tccgcgtccc gaccggcccc cggcagcctg cgccgcgcca tggccacctc 120
ccccgagaag tcgccttctg tccccaaagtc tcccactccc aagtcgcccc cgtcccgcga 180
gaaagatgat tccttcttgg ggaaactcgg agggaccctg gcccggagga agaaagccaa 240
ggaggtgtcc gagctgcagg aggaggggaat gaacgccatc aacctgcccc tcagcccaat 300
tcccttttag ctggaccccc aggacacgat gctggaggag aatgaggtgc gaacaatggg 360
ggatccaaac tcacgcagta cgcccaagct tcaagaactg atgaaggtat taattgactg 420
gattaatgat gtgttggttg gagaaagaat cattgtgaaa gacctagctg aagatttgta 480
tgatggacaa gtcctgcaga agcttttctga gaaactggag agtgagaagc taaatgtggc 540
tgaggtcacc cagtcagaga ttgctcagaa gcaaaaactg cagactgtcc tggagaagat 600
caatgaaacc ctgaaacttc ctcccaggag catcaagtgg aatgtggatt ctgttcatgc 660
caagagcctg gtggccatct tacacctgct cgttgctctg tctcagtatt tccgygcacc 720
aattcgactc ccagaccatg tttccatcca agtggttgtg gtccagaaac gagaaggaat 780
cctccagtct cggcaaactc aagaggaaat aactggtaac acagaggctc tttccgggag 840
gcatgaacgt gatgcctttg acaccttggt cgaccatgcc ccagacaagc tgaatgtggg 900
gaaaaagaca ctcactactt tcgtgaacaa gcacctgaat aaactgaacc tggaggtcac 960
agaactggaa acccagtttg cagatggggg gtacctgggt ctgctcatgg ggctcctgga 1020
gggctacttt gtgccccctg acagcttctt cctgaccccc gacagctttg aacagaaggt 1080
cttgaatgtc tcctttgcct ttgagctcat gcaagatgga gggttggaaa agccaaaacc 1140
gcggccagaa gacatagtca actgtgacct gaaatctaca ctacgagtgt tgtacaacct 1200
cttcaccaag taccgtaacg tggagtggag ggctgccctg ggccccaccac tgcccaagag 1260
ttcttgctgt tggcgctactg gacctcctc cgaactgcct taccctgctt attcctgtct 1320
cttgactgtg gctctcccac aagtccagct gcaaccaga gatagtggaa actgaaatta 1380
ggaaggaaat catcaataac tcagtgggct gacccatccc tcccaggcgc tggggaccaa 1440
cctagcaatg aagggtggga aggttggtcc ctcccgggtg ccagggtccag atttccctcc 1500
atgatttggg aaccagstta ggcaaaagag tccccacaag atgaaaataa agatcctagt 1560
taccattcaa aggatgctaa ctgtgtgtca ggccccacac taagtgtctt gctctgatat 1620
actcaaggcc attaatcttc aggactccca ttgacgtagg tgtttcattc cccttttaca 1680
gatgaggaaa ctaaggcttg gaggttaaat gacttgccag aagttggaat ttttttctc 1740
tttgaacata acctctccct tctccctaaa ggtaaccact attctgagtc caatcatcaa 1800
ggttttgctt ttcttttttag ctaagtatgc attcctcaat agtagacagt acaacatggt 1860
tataacaagc caattacatt atgttctttg catgttctaa agttgtgtat gtgtgtgcac 1920
atctgagcac gtgcacatgt acacctgagc caaaaacacg agaaccact gatctcacca 1980
ctggggcaag ctaggtcaga gcttagtgat tcacactgaa attggcaaat tggatttaac 2040
ccaattaata gtgtgtgtgt ggcaggagtc atgtccctca catcctttgt acaaatgaaa 2100
attactctta attccttcag atttataata actctgtact ttggtttcag ggtgacattt 2160
gggaaggatt ttgttttaga ttaatggagt ggcacatttt gcagcctttt tgcttgattg 2220
catgtaatgg aaatgcccta tattttctctg caaaataagt actaaattca ttatcgtaa 2280
gcaaatgtac aatatgctca ggcaccgcag agagctgggc acgggcccac gtgagcatca 2340
ctttggaagt agggctcttc aacagggacc cttgaacttt aaagaaaagga acttcttttt 2400
gccttctaata tgatcattta gactattctg gctaagtctg cccacatgta attaccggct 2460
aattcaagcc aagaaaaatg naaagtcatt tagacccaaa cccancaagt ttctttggct 2520
gggttacttc aagggttttg gngntacctt ggaatttctt tattgggaac tttgactttt 2580
aaaagaca 2588

```

&lt;210&gt; 438

&lt;211&gt; 3609

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (32)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 438

```

ctggtaatcg aaaatgttaa catgcctgag gngattgtta ttcacgcact gcagtgtact 60
cactatgtaa tcctttggca acttgctaag ataactgaaa gcagctctac aaaggaggac 120
ttgctgcgtt taaagaaaca aatgagagta ttttgtcaga tatgtcaaca ttacctgacc 180
aacgtgaata ctactgttaa ggaacaggcc ttcactattc tgtgtgatat tttgatgatc 240
ttcagccatc agattatgtc aggagggcgt gacatgttag agccattagt gtatacccct 300
gattcttcat tgcagtctga gttgctcagc tttatttttg atcatgtctt cattgaacag 360
gatgatgata ataatagtgc agatggtcag caagaggatg aagccagtaa aattgaagct 420
ctgcacaaga gaagaaattt acttgcagca ttttgtaagc taattgtata tactgtggtg 480
gagatgaata cagctgcaga tatcttcaaa cagtatatga agtattataa tgactatgga 540
gatatcatca aagaaacaat gagtaaaaca aggcagatag acaaaattca gtgtgctaag 600
acccttattc tcagtctgca acagctttta atgaaatgat acaagaaaat ggctataatt 660
ttgatagatc atcctctaca tttagtggca taaaagaact tgctcgacgt tttgctttta 720
cttttggaact tgatcagttg aaaacaagag aagccattgc catgctacac aaagatggca 780
tagaatttgc ttttaaagag cctaaccgc aaggggagag ccaccacct ttaaatttgg 840
catttcttga tattctgagt gaattttctt ctaactact tcgacaagac aaaagaacag 900
tgtatgttta cttggaaaag ttcatgacct ttcagatgtc actccgaaga gaggatgtgt 960
ggcttccact gatgtcttac cgaaattctt tgctagctgg tggatgatgac gacaccatgt 1020
cagtcattag tggaatcagc agccgggggt caacagtagc gagtaaaaaa tcaaaaccat 1080
ctacaggaaa acggaaagtg gttgagggca tgcagcttcc actcactgaa gaaagtagta 1140
gtagtgcagc tatgtggtta agcagagAAC aaacactgca caccctgtt atgatgcaga 1200
caccacaact cacctccact attatgagag agcccaaaag attacggcct gaggatagct 1260
tcatgagtgt ttatccaatg cagactgaac atcatcaaac acctcttgat tataatcggc 1320
gtggcacaag cctaattgaa gatgatgaag agccaattgt ggaagatgtt atgatgtcct 1380
cagaagggag gattgaggat cttaatgagg gaatggattt tgacaccatg gatatagatt 1440
tgccaccatc aaagaacaga cgagagagaa cagaactgaa gcttgatttc tttgatccag 1500
cttcaattat ggatgaatca gttcttgagg tgtcaatgtt ttaataccag tacacaatta 1560
aatctgtggt gaagtcattt tctaagtgga agaggaaatt ttaaagtgtg gtagatacag 1620
tgaaattctg tacagatttt tctctaagga gaatatgaca tgcttatgct taccaagatc 1680
aagtgcattg aggggcagtt ttgtttgcct gaataaacgt aaaggacaag taaacaattt 1740
gatgataagc tacagttttt cttagaaagt aaatatttta tttatgcgct gttagtggc 1800
ttttgaatcg attatttcat gctttttttt aaaaaaaaaa aaaacaaaat aacaatctga 1860
agaggcattt ggtacagata tgaattctct tacattttatt tactggttgt actaaataat 1920
gatgacctct gctggatttc tgtttacatc cagaaaacaa tgttaaggat gtatttatc 1980
ccctaccctg aagaaagtgt aggatagaat tgttttttagc attctaaatt taaatgctta 2040
aaacgtcaat caacaaaact ttgtttttaa tattgttaatt gtggagaaaa gtaaacttat 2100
aagcagaact tttacaattt tttcatctaa aagtattttta agatattttt aaaatccaag 2160
agcttctcta tacttttcag aaatatccag atgcagtga ctgccagaag gtaaccagtc 2220
tcaaacatgc ttatcccat atcaaccctg aaagtttgct tgtcctttta gataaaaatg 2280
taatgttggt atattccttc cagtaatgcc actgtatttt gtctccaaat aaaagaagct 2340
tattgtagta tgtttgcaga aaaattctaa acaaaaatta tacagcttat tagagtgtgg 2400
gaatagggat ctaaatttta aataaaatta tatatatata taaattgggt ctgattttat 2460
aattgcgagc tttgtttagt tttttcttac ttttaaatc caacttaaaa ttatgaggtt 2520
tcagaaatat attgaaagt taacaatgtt taaaaataga aaagcatgag tgttcatgct 2580
ttaaaatgat ttttaaattt gtattttata ttgttttatc tatctgtctt tgcaagcagt 2640
cttcaggtta aagatacttc taacaggtta cagtacattt cctctgtatg taaattagat 2700
gggataatag aattcataac ccataatatt ctttgaaagc taagctttta acttcatttt 2760
atgtcctttc acaataaat tagtttaaaa cagaaagtgg ctacttgcca ttttgacatc 2820

```



309

```

aactcatttt gcgaggctta ggcagctaga catcgtttaa aacaaaatat taacttatat 2880
tacatgtgta tctatctatt gtcagtcgtc tctcagttct tgaggtatat tattttaatc 2940
attccatgcc ttaatatgct tgcaatacaa gaatatcttc agatgggtga ataccaaaag 3000
gctttcagtt tttagtcaga aatcaagcat tgggctgtgg tagccaaaaa ccataggtta 3060
gctaaaaaga tcatgataca attattttat taagtcatgg ttaataacaa atgaatccag 3120
acttgtctaa cagattttcc atcaacaaat attgttatgt gcaaaagtat tgcctatggt 3180
gttttacaca ccactgcatt aactagaact gctgagagga ctgtatatat gattttaaac 3240
ctaagttgat tttttttctc actcttgaaa ggagtacttc tttgtgaaag cagttcttac 3300
agctttgttt tcaaccagct aaaaatgttt tatatattac tctaacctgt tgcctccac 3360
attctattgt cctaattgta ctgttttctg atttgatttt atgtcttgag acagtaactt 3420
tttgaataaa aataaaccta cagtatgttg tatgttttct cttgtactca aagggggagg 3480
gtggctataa atgggttgca aatttatatc tattatcaca tcttttaatg tgtttgggga 3540
ataatttata gagaatacca tcagtttata tttttaataa atcatatgta tttacaatga 3600
aaaaaaaaa 3609

```

&lt;210&gt; 439

&lt;211&gt; 2643

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2630)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2633)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 439

```

gcggacgcgt gggcggaacgc gtggggcgga gcgtgggcga ccgctgtaac tatgtgcgag 60
ttggcaccac ccgggtgcac tgacggggcc ggtgaaggaa aagatcatgg cggatgatcaa 120
ggagtggggc actggccggg acaccctgcg ctgcttgccc ctggccaccc gggacacccc 180
cccgaagcga gaggaaatgg tcctggatga ctctgccagg tcctggagt atgagacgga 240
cctgacattc gtgggtgtag tgggcatgct ggacctccg cgcaaggagg tcacgggctc 300
catccagctg tgccgtgacg ccgggatccg ggtgatcatg atcactgggg acaacaaggg 360
cacagccatt gccatctgcc ggcgaattgg catctttggg gagaacgagg aggtggccga 420
tcgcgcctac acgggccgag agttcgacga cctgccctg gctgaacagc gggaagcctg 480
ccgacgtgcc tgctgcttcg ccgctktgga gccctcgac aagtccaaga ttgtggagta 540
cctgcagtcc tacgatgaga tcacagccat gacagtgat ggcgtcaatg acgcccctgc 600
cctgaagaag ctgagattgg cattgccatg ggatctggca ctgccgtggc caagactgcc 660
tctgagatgg tgctggctga cgacaacttc tccaccatcg tagctgctgt ggaggarggc 720
cgcgccatct acaacaacat gaagcagttc atccgctacc tcatttcctc caacgtgggc 780
gaggtgggtc gtatcttcct gaccgctgcc ctggggctgc ctgaggccct gatcccggtg 840
cagctgctat gggtgaactt ggtgaccgac gggctcccag ccacagccct gggcttcaac 900
ccaccagacc tggacatcat ggaccgcccc ccccgagacc ccaaggagcc cctcatcagt 960
ggctggctct tcttccgcta catggcaatc gggggctatg tgggtgcagc caccgtggga 1020
gcagctgctt ggtggttcct gtacgtgag gatgggcctc atgtcaacta cagccagctg 1080
actcaattca tgcagtgcac cgaggacaac acccactttg agggcataka ctgtgaggtc 1140
ttcaggcccc ccgagcccat gaccatggcc ctgtccgtgc tggtgacat cgagatgtgc 1200

```

## 310

```

aatgcactga acagcctgtc cgagaaccag tccctgctgc ggatgccacc ctgggtgaac 1260
atctggctgc tgggctccat ctgcctctcc atgtccctgc acttcctcat cctctatgtt 1320
gacccctgc cgatgatctt caagctccgg gccctggacc tcacccagtg gctcatgggtc 1380
ctcaagatct cactgccagt cattgggctc gacgaaatcc tcaagtctgt tgctcggaac 1440
tacctagagg gataactgtt cccctcctc catctctgag cccgtgtcac agatccagaa 1500
gatgaaagaa ggaagtgarc atccttttgc tctgtcctcc ccacccgat agtgacacat 1560
cttcaggcag agctgtggca cagaccccg tctgtcctcc cacacccgtg tcatgtgtct 1620
gtttataaac atgtcccctt ccttttctt cccctcggc caccgcctc cctctcaacc 1680
ttgtaaattc ccttcccaa ccccgagggg cttgcaggga caaggcgacc gactgcgctg 1740
agctgcttat ttattgaaaa taaacgacgg aaaagtctgg ccttgctct gtgcaagctt 1800
ggaggcctgg gtcgcgctg tggacaagcg tcttagtgct atgcagacca gaaggcagct 1860
gcctgtccca gggccggggc ccacctcact gcctctgatg gggactccca gccccatgg 1920
ctccgctgtg ccctgggcag gggacgggt gggggcaggg gagggctgga gccaggagg 1980
cagcacagca gccagaaagc cgcasgcctg agcctgcacc tttggttccg ggaggggctt 2040
gggcccctca cccaggtgtg atccctgaga acaggaggcc cagccaccct gggaggaggc 2100
gctggagggc ggggcggtgg tggccccgt cagtccctc aacccagtc tcagggacgg 2160
tggaagacc atccaagacc ccagagcgag gcctcatggt tcaggagtgg ggaaaggcgt 2220
ctttccagg gtgggggtgg ggatattctg accctcagg tgccttgat gtccctgacg 2280
tccgtgagtg gcgcytcac catgatgctg cgcacttgct ccagggtctc agccyggcgg 2340
atccgctcta ggcgacccg ccggatcgga cgaggggagc agagtgcact tgtggggaaa 2400
cgacgccct acccacctg ccagcccca agggcggggc ctggtaccag tggaccagg 2460
ggccacctct agggggctga tgccacaaat gccctgagcg tccaccatgc cctgtactga 2520
gggcttcagg tgactgacca aggtcacat gagagtttca gggttttttg agtaacagct 2580
caggacagga ccatgccagc tctgtccgaa ttcctgcagc ccgggggggn tcnccccaag 2640
aaa 2643

```

&lt;210&gt; 440

&lt;211&gt; 637

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (564)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 440

```

gaattcggca cgagggcagtg tgccacccca tctggctaata tttgtatttt ttgtggtgac 60
aaggatttgc catattgctc aggttggtct caagctcctg ggtcgaagt atccgccac 120
ttcagcctgc caaagtgcta ggactatagg cgtgaaccac tacacctggc ctataatatt 180
ttcttacgga aatgagatct cactgtgttg ctcaggcttg tcttcaactc ctgggctcaa 240
gcaatcctcc tgcctcggcc tcccaagatg ctgggattac aggcgtaagg cactgggcct 300
ggaccataa ataaagtttt attggaagac agtcattctc atttaattga tttgtttcac 360
atctgccta cagtggcaga gttgagaagc tgtaacagag accatgtggc ctgcaaggcc 420
caaaatattt gttatctggt cttttgttga aaaagttag ccaggcatgg tgggtggcgc 480
ctgtaatccc agctactcgg gagtctgagg caggagaatc gcttgaacct gggaggtaga 540
ggttgagtg agccgagata gtgnccatgc gctccagcct gggcaacaga gtgagactcc 600
atctcaggaa aaaaaaaaaa aaaaaaaaaa actcgta 637

```

&lt;210&gt; 441

&lt;211&gt; 2595

311

<212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (64)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (82)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1222)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (2398)  
 <223> n equals a,t,g, or c

<400> 441  
 gtgctcttgg ttctacgctg tgcagcccaa gttggggact acaaaagwag tgcacaagtc 60  
 tggntacctc agytctgagc gnetgatccc tcaagagtga tggaccagca caaacttacc 120  
 agggaccagt gggaggaccg gatccagggtg tggcatgcgg aacaccgtgg gatgctcaaa 180  
 gataatgcta tgttgggaata cctgaagatt gctcaggacc tggaaatgta tggaatcaac 240  
 tatttcgaga taataaaca gaaaggaaca gacctttggc ttggagttga tgcccttgga 300  
 ctgaatatatt atgagaaaga tgataagtta accccaaaga ttggctttcc ttggagtga 360  
 atcaggaaca tctctttcaa tgacaaaaag tttgtcatta aaccatcga caagaaggca 420  
 cctgactttg tgttttatgc cccacgtctg agaatacaaca agcggatcct gcagctctgc 480  
 atgggcaacc atgagttgta tatgcgccgc aggaagcctg acaccatcga ggtgcagcag 540  
 atgaaggccc agggccggga ggagaagcat cagaagcagc tggagcggca acagctggaa 600  
 acagagaaga aaaggagaga aaccgtggag agagagaaag agcagatgat gcgcgagaag 660  
 gaggagtga tgctgcggct gcaggactat gaggagaaga caaagaaggc agagagagag 720  
 ctctcggagc agattcagag ggccctgcag ctggaggagg agaggaagcg ggcacaggag 780  
 gaggccgagc gcctagaggc tgaccgtatg gctgcactgc gggctaagga ggagctggag 840  
 agacaggcgg tggatcagat aaagagccag gaggagctgg ctgcggagct tgcagaatac 900  
 actgccaaaga ttgccctcct ggaagaggcg cggaggcgca aggaggatga agttgaagag 960  
 tggcagcaca gggccaaaga agcccaggat gacctggtga agaccaagga ggagctgcac 1020  
 ctggtgatga cagcaccccc gccccacca cccccgtgt acgagccggt gagctaccat 1080  
 gtccaggaga gcttgcagga tgagggcgca gagcccacgg gctacagcgc ggagctgtct 1140  
 agtgagggca tccgggatga ccgcaatgag gagaagcgca tcaactgaggc agagaagaac 1200  
 gaggctgtgc agcggcagct gntgacgctg agcagcgagc tgtcccaggc ccgagatgag 1260  
 aataagagga cccacaatga catcatccac aacgagaaca tgaggcaagg ccgggacaag 1320  
 tacaagacgc tgcggcagat ccggcagggc aacaccaagc agcgcacgca cgagttcgag 1380  
 gccctgtaac agccaggcca ggaccaaggg cagaggggtg ctcatagcgg gcgctgccag 1440  
 ccccgccacg cttgtcttta gtgctccaag tctaggaact cctcagatc ccagttcctt 1500  
 tagaaagcag ttaccaaca gaaacattct gggctgggaa ccaggagggc gccctggttt 1560  
 gttttcccca gttgtaatag tgccaagcag gcctgattct cgcgattatt ctccaatcac 1620

## 312

```

ctcctgtggt gtgctgggag caggactgat tgaattacgg aaaatgcctg taaagtctga 1680
gtaagaaact tcatgctggc ctgtgtgata caagagtcag catcattaaa ggaaacgtgg 1740
caggacttcc atctgtgcca tacttgttct gtattcgaaa tgagctcaaa ttgatttttt 1800
aatttctatg aaggatccat ctttgtatat ttacatgctt agaggggtga aaattatttt 1860
ggaaattgag tctgaagcac tctcgcacac acagtgattc cctcctcccg tcactccacg 1920
cagctggcag agagcacagt gatcaccagc gtgagtgggtg gaggaggaca cttggatatt 1980
tttttagttt tttttttttt ggcttaacag ttttagaata cattgtactt atacacctta 2040
ttaatgatca gctatatact atttatatac aagtgataat acagatttgt aacattagtt 2100
ttaaaaaggg aaagttttgt tctgtatat tttgttacctt ttacagaata aaagaattac 2160
atatgaaaaa ccctctaaac catggcactt gatgtgatgt ggcaggaggg cagtgggtgga 2220
gctggacctg cctgctgcag tcacgtgtaa acaggattat tattagtgtt ttatgcatgt 2280
aatggactat gcacactttt aattttgtca gattcacaca tgccactatg agctttcaga 2340
ctccagctgt gaagagactc tgtttgcttg tgtttgcttg cagtctctct ctgccatngc 2400
cttggcaggc tgetggaagg cagcttgttg aggcctgttg ttccgcccac tcatctcttc 2460
tcgtgcactg ctttctcctt cacagctaag atgccaatgtg caggtggatt ccatgccgca 2520
gacatgaaat aaaagctttg caaaggcaaa aaaaaaaaaa aaaraaaama aaaaaaama 2580
aaraaaaaaa aaaaaa 2595

```

&lt;210&gt; 442

&lt;211&gt; 1301

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 442

```

ggcacgagga ctgattgccc cttggggtca tatgttgga tgcaccaggt aggccagccc 60
tgccattggg gcattagtaa atgtgcctgt gcgtgggtct cgggtccaaca cagttgatat 120
acatttgttt acctgttata gttgcaagtt gtacaggctg acattgcctc gatcgacagt 180
gatgctgtcg ttcacccgac aaacactgac ttctacatcg gtggtgaagt aggaaacacg 240
ctggagaaga aaggtggcaa ggagtttgtg gaagctgtcc tggaactccg gaaaaagaac 300
gggcccttgg aagtagctgg agctgctgtc agcgcaggcc atggcctgcc tgccaagttt 360
gtgatccact gtaatagtcc agtttggggg gcagacaagt gtgaagaact tctggaaaag 420
acagtgaaaa actgcttggc cctggctgat gataagaagc tgaaatccat tgcatttcca 480
tccatcgcca gcggcaggaa cggttttcca aagcagacag cagctcagct gattctgaag 540
gccatctcca gttacttcgt gtctacaatg tcctcttcca tcaaacgggt gtacttcgtg 600
ctttttgaca gcgagagtat aggcattctat gtgcaggaaa tggccaagct ggacgccaac 660
taggctgagc aatgacagaa ccagctgcac catgtacccc accttcagtt taaaagaaaa 720
aaaaaatccc cttcactcct actgggaggt gggaccctt ccattttcag ttttgctcat 780
ctagggaaaa taaggctttg gtttccagtt taattgtttt tgaccttcta aaatgttttt 840
atgttagcac tgatagttgg cactactgtt gttaagcact gtgttccaga ccgtgtctga 900
cttagtgtaa cctaggagat tttatagttt tattttaatg aaaccctgat tgacgcacag 960
cagtggggag aacagcgtct tttacctgtc accgaagcca ggaagccccg tttgtaagcg 1020
tgtgttgttg tgctttattg tacatcctcc agtggcgttc tttttactct aatgttcttt 1080
tggtttcccc cctcagaaga atcatgaatt tgcaacagac ctaatttttg gttacttttt 1140
gtcttattga tggatttgaa aatgaaagat ttaataaggc aaagcagaat ctgttgtcct 1200
taattatatt tgcaatttgg aatttgtgtg agttgattta gtaaatgtt aaaccgttaa 1260
aaaaaaaaaa aaaggcgggc cgctcgcat ctagaactag c 1301

```

&lt;210&gt; 443

&lt;211&gt; 689

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

313

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (678)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 443

```
ttctgctacg cctgtacaga cgtatcttcc cagagtgaaa gttgatgttt agccgttccg 60
aagttggtgc tttgtgggaa ggagaacagc gggagagccg taagkaacgc agcgtcctga 120
cgtgaggaac gcctcttaac acgccccgtg gcatggagtt tgacagggcc ctggatccct 180
gcgttcaccc ctctggaggt cctggacgcc cacctgggag cagcgtcagg gccgtgccac 240
tttgaccac gttaaacgca ttgcatcctc atttctgtgt cccatctaga tgcttgactc 300
agtgatgcag aacctttcag agttagctgg aagccacagc cctgcctctt gatgcagcct 360
ggatccagcc ggtgtgaaga ggagaccctt tccctcttgt ggggtttgga tcctgtgttt 420
ctagcctttg caaaactcta catcagggat atcctggaca tgaaggagtc ccgccagtgc 480
cagtgtatth ttgtacaagg acatccaata aaacaggtag atgtcttggg aactgtcatg 540
gagtggagaga aagagatgct ttctacagtt awggagtggg tgacarcact kgagttataa 600
actgcctctg ctgggaaaaa gttgaatact gagtctgtaa tcagctgctc caagtggcaa 660
gcaagagagc tcagcttnaa cctcacaac 689
```

&lt;210&gt; 444

&lt;211&gt; 395

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (380)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (384)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 444

```
cttgaacctg aagaggcgga ggttgacagt agccaagatc gcgccattgc actccagcct 60
gggggacaag agtgagactt agtctcaaaa aaaaaaaaaa agaaaaaaaa atcagggata 120
tagttcatat ccacttctt tgtttacacc gatgtccctg aatatcagcc tgtagctaata 180
ggacttgga tttctggtct aagtgggcct cctggggatg ggggtggtaca ctgagcttct 240
gagcctcatt gtagagtaga aaggtactgg ggcctgtgtg gtaagccttg ttgaaatgct 300
ctgggtattca gtattgcctt aataaacttc acccacaact gcaaaaaaaaa aaaaaaaaaa 360
aaaaaaaaaa aaaaaaaaaa ccnngggggg ggccc 395
```

&lt;210&gt; 445

&lt;211&gt; 1558

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

314

&lt;222&gt; (420)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 445

```
caataatctt aacagtgtcc tggctgarcg actggagaag tggctgcaac tgatgctgat 60
gtggcaccac cgacagaggg gcacggatcc cacgtatggg cccaatggct gcttcaaggc 120
cctggatgac atcttaaact taaagctggg tcatatcttg aacatgggtca cgggcacccat 180
ccacacctac cctgtgacag aggatgagag tctgcagagc ttgaaggcca gaatccaaca 240
ggacacgggc atcccagagg arkaccaggm gctgctgcag gaascggggc tggcgttgat 300
ccccgataag cctgccactc agtgattttc agacggcaag ttaaataarg gccacacatt 360
ggacatggat cttgtttttc tctttgacaa cagtaaaatc acctatgaga ctcagatctn 420
cccacggccc caacctgaaa gtgtcagctg tatccttcaa gagcccaaga ggaatctcgc 480
cttcytcarr ctgargaarg tgtggggcca ggtctggsac agcatccaga ccctgaaggga 540
agattgcaac cggctgcagc agggacagcg agccgccatg atgaatctcc tccgaaacaa 600
cagctgcctc tccaaaatga agaattccat ggcttccatg tctcagcagc tcaaggccaa 660
gttggttttc ttcaaaacca gcatccagat tgacctggag aagtacagcg agcaaaccga 720
gtttgggata acatcagata aactgctgct ggccctggagg gaaatggagc aggtgtgga 780
gctctgtggg cgggagaacg aatgaaactc ctggtagaac ggatgatggc tctgcagacc 840
gacattgtgg acttacagag gagccccatg ggccggaagc agggggggaac gctggacgac 900
ctagaggagc aagcaaggga gctgtacagg agactaaggg aaaaacctcg agaccagcga 960
actgaggggt acagtcagga aatggtacgg ctgctgcttc aggcaattca gagcttcgag 1020
aagaaagtgc gagtgatcta tacgcagctc agtaaaactg tggtttgcaa gcagaaggcg 1080
ctggaactgt tgcccaagggt ggaagagggt gtgagcttaa tgaatgagga tgagaagact 1140
gttgctccggc tgcaggagaa gcggcagaag gagctctgga atctcctgaa gattgcttgt 1200
agcaaggctc gtggtcctgt cagtggaaag ccggatagca tgaatgcctc tcgacttagc 1260
cagcctgggc agctgatgtc tcagccctcc acggcctcca acagcttacc tgagccagcc 1320
aagaagagtg aagaactggt ggctgaagca cataacctct gcacctggt agaaaatgcc 1380
atacaggaca ctgtgagggg acaagaccag agtttcacgg taacagcttg tgtgagactc 1440
ctgcgattcc atgtcctttc tttctatggc aaaaatagaag agaaaatgga aatgcaatct 1500
ggcattatcc tcaaccccaa aaaaaaaaaa aaaaaaaaaa aaaaagtcgt atcgatgt 1558
```

&lt;210&gt; 446

&lt;211&gt; 3085

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (62)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (3077)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 446

```
ttttttcctt ctactataacc attttaagtt ctgacctcag gcctccattt gggccgatgg 60
cntcttgagg gcttaaagtt ttctgtacct tgtgatgaat gttaatagggt gtttttatta 120
tacaaagctg aatgtcattt ctggtttgta gctttctgtc actcattcca tcttccttca 180
gacatcacca cgtttctcta aagtcagaaa acattccggt ttgggtcttt tcaaaaagggt 240
```

```

cccaaagtct gcactctaca catgaaggcc ctctcacaca gacgtgacgt cctgccagaa 300
agagaatgaa tgacagaaaa aaaaaagaga gacaaactct aggaacaatg ccgattcatt 360
ccacgcagca gtattggggg tgggtcgggg gaggggtgtt tcggattttc ttttttytt 420
ttcttttmtt tttttttttt tgcagcaacc attaatatgt gccaccacat tctaccagca 480
caaggaaaca taggcagcac tgaaaaaaaa aaaaaaagct catattaatt agactgacaa 540
tatggccttg gaaggctctc ccttgtggaa ccaagttgcc atgggccttg ggtgctctgc 600
gataacgggt gtgggttggt tttgtttgca aaatggccaa aaaaaaaaaa cggcttcccc 660
gagcagctgc cctgaaagta ggggtggcgg cggcggcgct gagtttatac attagttag 720
acctacttgg tggcattaaa ctggttgaaat gcaaatcga tttcagattg aacttgtaa 780
gggagttaac gagggctgag ttcagcaaat gctaaagtgt taatttcaa tatgcaaat 840
tggtactgca gtttgttatg caatattata tcaccaacc agtatcaca aaactcatag 900
aagatatcat gtaggcctg ggccttgggg gggccccaa catggtatgc agaatgtga 960
tggttacagg tcagtacaac ctgagtcctt agaaccctc cacacttcag ctctgcacc 1020
actttctgt catttattta tataggactg tagtttttt tagttcgaga gcctttcgaa 1080
gcttaattta tttctttct ttgtacctt tttctaaaat taccaaagat attacacaaa 1140
ggtaaattat gttctctgtt ttatgcttta tctgatgaag ccaaatatcc tcttattgtt 1200
gatcaaagga ggcaaaagaa tttagaggca aatgacaagc gataggctat tgcaacctga 1260
gaaagagaac tgctccttca tcgtaaattt agaagaccaa gtagataatg gaaccaaagt 1320
tggtactttt ttctagtagt tatttttctt tttcttttt gtgtacctct acagagacca 1380
aaactcatto tcttaaagag attttatggg gctactgcag ataaaaatag gacacaatat 1440
taaaggagct acagaaggaa gggagtccca tctcaaaaaa aaaatgaatg tatgccactg 1500
caattagagt atccaataaa ggagacagtt tagagtcagg acagaaaagc ttccataatt 1560
gaactagatt acataatagt atttctagaa aaagagatat ttttagattg tatgccactt 1620
ttgtttaaga actgtgctgt gatcactgta ttaatttttg tttatcttgg catatatcct 1680
tcagtttggt tttattttta atttttctt tttttccgat taggcttttg tcagcatttt 1740
tcatttaaag aaaagtaaca ctcccatcca ctcataagct tggtaaaaa acttctctgg 1800
cagttacttt tgaagcttca ctctgcttct tgtataaagg gcagtctgtg gtcacgcaag 1860
actttaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaacttttc caggcagctt 1920
catgatgtgc aggcagtagc cagacagggt catgggaagg gggccctgtg cttctaaact 1980
gagtggttgc tggtttagtt ggtattcaaa agaggataaa aatctggtag attagttag 2040
tctcagcatg tgtagctaga catgagtaa gataacagca tgagaaactg ttagtacgca 2100
tacctcagtt caaaccttta gggaatgatt aaaattttaa aaaaaaacat ttactcagt 2160
tgacttagt cgtatgtctt gcatgcttag tctaaagact gtagcaaaaa aaaaaaaaaa 2220
agaaaaatta gattttacat atctttgcag gtatcacagc cttgcagaag aaccaactga 2280
aaaaaaaaatt ctcaggcttt acagcaagca aacttacta tgatttttac aattctgatt 2340
ctgtatcccc tgggggttat ccagttgct tctttaggat ggggtttatt acgttgtaca 2400
tatatcccca tgtgtctgtg tgaatctttg tcttttttg gggagggcag agggcggttc 2460
tttttttaga tattgttcct aaaaaggaat aaatgcatac acctgtttgt caaacacct 2520
ttgctttttg tgcaactgct ttatattaac gatactaaaa aaaaatagct ttggaaaaaa 2580
aactactgta tgtaacggaa ttgcagaata tgctgcacat gtattttatt tagttatcct 2640
tgctttaaga atattggatg acatttctg acatgtggga gggagaaact ccctaacttt 2700
ttttttctgc ttttaaactg taacatagtt gaagatttct tttttctgtt ctcatgtatt 2760
ggagcatttt gtacaggttt tgtgtgtgtg tgtgtgtgtg tgtgcgcgcg tgcgtgtgtg 2820
ttaatctgtt ttttgataca ttctatccc ttgtgtttat cctaccactg cttctctggc 2880
tatcttaaac aagttcatac atttgaaaag aaaaaaaaaa gttgttttaa aaatgttttc 2940
tctgtctgca gtaaatattt tgcatgatga aattccaggg tcacactttt ccaagtttat 3000
cagtgaagta gtgattaaca atggggagtg tcaaaactat tgaacttttg tataaaaaaa 3060
aaaaaacttt acaaggngcc aagat 3085

```

&lt;210&gt; 447

&lt;211&gt; 1917

316

<212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (1915)  
 <223> n equals a,t,g, or c

<400> 447  
 ccttaatccc gagacgtccc gttaaaacgc cccgtctgga agcggtttcc cactttgaat 60  
 tacgaagtgc aagcatttgc gagcagccat gattccccgc gcacgcagcc gtcacgcgca 120  
 ccgtacagcc cagtccacga agggcgccac gggccgtgac gtcacctatg cccgacggcg 180  
 cgctttcgtg acgcagcccc ggtctcaggg aacatggcgg cgctgggtgag acccgcgagg 240  
 tttgtcgtgc gaccgttgct gcaggtggc caggcttggg accttgacgc gaggcgctgg 300  
 gtccggggcg tgcggcggag ccagtgaag tggtgtttcc ttccgragag gtggtggaac 360  
 agaagcgcgc tcctgggaag cagccccgca aggcaccatc tgaggccagt gccaggagc 420  
 aacgagagaa acaaccgctc gaggagtccg catcccgcg cccagcacc tgggaagagt 480  
 ctgggcttcg ctacgataaa gcttatcccg gggacaggag gctgagcagt gtaatgacaa 540  
 tagtaaagtc caggccattt cgggaaaaac aagggaagat cctgctggaa ggtcgcaggc 600  
 tcatttcaga cgctctcaag gctggagctg tgccaaaaat gttcttcttt agccgtctag 660  
 aatacctaaa ggagttgcca gtcgataagc tgaaagggtg cagcctcatt aaggtgaaat 720  
 ttgaggatat caaggattgg tccgacctcg taacgccaca aggaataatg gggatttttg 780  
 ccaagcctga ccatgttaag atgacatata caaagactca gcttcagcat tcaactgcctt 840  
 tattattgat ttgtgacaat ctccgtgacc ctgggaacct ggggacaatt ctgagatctg 900  
 cagctggggc aggtctgcagc aaagtgttac tcaccaaagg ctgtgtggat gcctgggagc 960  
 ccaaagtgtc ccgggcgggt atgggcgcac atttccggat gccattatc aataatctgg 1020  
 aatgggaaac cgtgcccaat tacctgcccc ctgacactcg ggtctatgtg gctgacaact 1080  
 gtggccttta tgcccagggt gagatgtcta ataaagctag tgacctggc tgggtgtgtg 1140  
 atcaacgagt gatgaagttt cacaagtatg aggaagagga agatgtagaa accggagcca 1200  
 gtcaagattg gctgcctcat gttgaggttc agagttacga ctccggactg acagaggcgc 1260  
 cggcagctgt ggtgattggc ggggagacct acggcgtgag ctggagtccc tgcagctggc 1320  
 cgagagcact ggtggcaaga ggctgctgat cccggttggt cctggtgtgg acagcctcaa 1380  
 ctccggccatg gcggcaagca tcctgctttt cgaagggaag agacagctgc gggggagggc 1440  
 ggaggacttg agcagggaca ggagttacca ctgaggacgc agaagtgact tctgcttgag 1500  
 gacgtctgca gtcctccta caccagcaca ctggtgggag gctggcggag tcagtacta 1560  
 tggccccac gttcaggagg aaggtgtgat gccgtcatac agttacagga aaaataagaa 1620  
 cttctcaga aagaacaggt ccgaattctt cctgtcgcgt cactgatttt gaggttcttt 1680  
 tttctcttgg tgacaatagg tgaccacgt ggctctgtgt gtttttaaaa attgtccacc 1740  
 aagaagcact ttgtgccag aaagttcctg aagcatcatc ctggcaggga ggcgcctgct 1800  
 ccaccagctg gtgggtgttt gtaatcgcca agcaccagct ataggtcaca gccacatcac 1860  
 tcacagctga tcaactggtg gtggaaaata aactatgagc agcaaaaact cgtgncc 1917

<210> 448  
 <211> 946  
 <212> DNA  
 <213> Homo sapiens

<400> 448  
 ggcacgagcg gcacgagtcg gcacgagaac actgctatgg gcgttggtcc atgatcaaac 60  
 ggctggcatg actcatcata gtcacgaaca gttattagcc agccatggct gtgggtgctt 120  
 gccttagcag tcctgtgtta gcattgcttt actctgggca catttttctt attctctatt 180



## 317

```

ctgggataga agtagtttct gacttctagc cacgttcagt ccaggctgga gagatctaca 240
cctgtttcta ggattctcgt tttcaagggt tctgaatatc ccctactccc acttaccccc 300
aaaataagct ttttacckgg ataggagagg gaaagaggta tttttcatca attctccct 360
tctctgctct tctcccttct taataccata aggcagttct tcgtgacttt tacagaaaca 420
tatgtacacg tccttacaga gtttaggaga gcctgtgggc tttttgcctt agtctgctag 480
aaagactggc ctgctgctct ctgctttatc cagaggctctg cctctgggac ttcagccctg 540
tagctgtaga gaccagaaga ccaaccctct ttgagacca gatgctactt tcccttgctg 600
ccccctctct ttcctctccc aatgagccaa ccttttgac ttccactaga atgccaggca 660
ggctgggccc ccaaaggctc ctttttcaaa acctctggaa gccgcggttg aatgtgccat 720
gacctctcc ctctctggat ggcacatca ttgaagctgg cgtcatcgga gtctcttggt 780
ctgttgcggt gctacctgga agatccttct gtctggaca agaggaattg gaagagcatt 840
ttatgtttta agaacaggct gacacgcagc agctacaaca acagctgaga tcacttaata 900
aatggtgcta aactaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 946

```

&lt;210&gt; 449

&lt;211&gt; 1190

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 449

```

ggttctagct aaatataagt gcgactgtaa acgcagccaa tttttttaag cagaatatga 60
gaacacctaa gtattctctt catagcagtt cctataaagg gattaaacac ttatttctgt 120
gttatgggtc ttattcatat atttttatag cacctttttt tggaacctat atttgtgctt 180
gaagggtgtt ttgatatttg gaaacagtat aagccatttg gagtcatgat tgggtggtcaa 240
gtggattcaa gctaaaatac taagaccagc attccttagtg gcgcttataa attagctctc 300
acctgggttc caaactgctt ttaacaatgg tagtgctcct ggaacaatcc ttccaagctc 360
ctctaaggac aatatttaat tcagatacta aaggtaagac tggttgttac ttttgttttg 420
ttgtacaatt agtactttat agtcacatgt tgtatatatt aaatagccca gttttattca 480
gacttgtaaa tagaactatt tcaatgtagt taatctaaaa acaaaaaaga aaacccagct 540
cacgatttgc atgttctctg taagcttcat ccatgctggg tattgcaactg aatgatrtat 600
tattagggca tgtaaacagt ataccagtaa cagcacttta tctcatttat atgaacacct 660
ttgaggtgct acttaagtcc aagctctgat gtattattca tttgtaaaga taaggtagag 720
gaatgaacct tggtttaaaag gtatttttat atgaaaatgg tgtgttattg gaagatgtta 780
aaatgctaatt ttgagagaag taggagtgtg tctgttttat atgttgggat gtgaaattta 840
ttttctaaaa ttgaggagaa ggaagttata tatttgacaga atgttttaaa gtgaattgtt 900
gtaatgaagt tcctgtgaac atcattatgg ttttgtacaa ataggaacct ctgatgtcat 960
tcttcaacgt ttgttcctgt gtgtacaatt gtactttgta tgaacagctt tatcattttt 1020
ataggctttc catgagtttt gctgtaacta ctatggctta tttattttct ttaatatattg 1080
tgaaagtctt actcctttgt tagttttgtt tctgcacaac tactgtactt ttccatatgg 1140
aataagact attaatagaa aaaaaaaaaa aaaaaactcg agactagcct 1190

```

&lt;210&gt; 450

&lt;211&gt; 915

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (915)

&lt;223&gt; n equals a,t,g, or c

318

&lt;400&gt; 450

```

gggtcgaccc acgcgtccgc ccacgctccg cccacgcgtc cgagactatc tttctagaca 60
aggcagttga ggaggaggga gcgcttgagg gggactggcc tggcgtgcac tccgcacctc 120
ggggacatta ttgcgcgtgg aacggctgct tttggaagac tattgccag aagaaaagat 180
gtttggtttt cacaagccaa agatgtaccg aagtatagag ggctgctgta tttgcagagc 240
taagtcctcc agttctcgat tctactgacag taaacgctat gaaaaggact tccagagctg 300
ttttggattg catgagactc gttcaggaga catctgcaat gcctgtgtcc tgcttgatga 360
aagatggaag aagttgccag caggatcaaa aaaaaactgg aatcatgtgg tagatgcaag 420
ggctggaccc agtctaaaga ctacattgaa accaaagaaa gtgaaaactc tatctgggaa 480
caggataaaa agcaaccaga tcagtaaaact gcagaaggaa tttaaacgtc ataattctga 540
tgctcacagt accacctcaa gtgcctcccc agctcaatct ccttggtaca gtaaccagtc 600
agatgacggc tcagatacag agatggcttc tggttctaac agaaccagc ttttttctt 660
tttagatctc acttactgga aaagacagaa gatatgttgt gggatcatct ataaaggccg 720
ttttggggaa gtccctcattg acacacatct cttcaagcct tgctgcagca ataagaaagc 780
agctgctgag aagccagagg agcagggggc agagcctctg cccatctcca ctcaggagtg 840
gtgactgagg tttttatgta gaaggggaac aaaaaaaaaw awctgaattt tgaaccac 900
aaagstacaa aatgn 915

```

&lt;210&gt; 451

&lt;211&gt; 1862

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 451

```

ggcacgagct cgtgccgaat tcggcaccaa atttctgaag cattaatctg ttctgttact 60
ttccagctaa aaaccaacaa gtgtctgagg acacagttta aactccaaga tgatagggtc 120
cggcacgagt gggctccac ctacctcat gacctcttt tgtgaaatgc tgaagggtc 180
tgacgtgggt tgtctggtac tgctggcctt tgctttctat ttagcatgtt ccttctcca 240
caaaacaaaa tcacattctc actatgccct gttcattctt caggactatc ttctgggaaa 300
cttttactac atacctctc cccctaatc tgagtgtctg ctttgctcag gtagcatgtg 360
ttcactggat aaatccttga ttccctggcag tgaggcaggg tttctgttcc caggaagcag 420
aggcatacta ttctgtgaag gattgactga gtttctccta ataccaagca gtatctgagg 480
gaacagatgt ctagcttaaa atcctcccta gcacttgta tagcagtgt acgtattgcc 540
tgtgaaggaa gttaataaac tgctgaaagg ttctgattagc tttatttcat caggatttgt 600
ttgactttac aaattgattt gggttatttc aacttttagg tctagtctta agtataactg 660
gtacatattc cttcaagcag ccattacacc tctcataaat ttattataca cctgcatttt 720
tataactatt atgcttttta attgttgagg accattttta gtgcttctga attgttatgg 780
ttctcaagca gcagttgtca ccttggtttt gaattaatgc tgtgacgctt gcttccagga 840
cccctatggt gtagccgtgg gtggaactgt ggggcactgc ctgtgcacgg gattggcagt 900
aattggagga agaagtagag cacagaaaat ctctgtcaga actggtaagt cttgaaaatt 960
acaaatcaga taacatttta gaatcactga gagattaaag ggtgttagct ttgattattt 1020
aaatttctgc tgctgaagta tacttggttt ttctaattac ctaccatctc ttatagaggt 1080
attaatcctg gtattgcaaa tacggacttt tttcacctgt gtagaagtta gcaaaataca 1140
aagtcatttt tatcgaaatc atagtagctt cttgttaaca tattatctta gtaaaacaat 1200
tgtcatttgg aagtatgaga agtttttggc tctaaaaatg tgtcttaca gactggaatc 1260
atgtggagac catatgtact gattctgctg aatatgtcct gtgaagccac agttaggtct 1320
agagatggaa gaatcgctctc tttgctagtc agaagacctg aacattttct tttataactg 1380
gattttaaga tgagttatag ttctactgtt gcttgccagc actgtctgga tttataacaa 1440
tcctgtcatt tctcaaaaca gtgctggaga aaacctgatt cttagtgttc acagtcaagc 1500
atgttaagta ttgttcttgg ttatgtaaaa ggggttgaag tgattctaat ttgttttcaa 1560
ggttagttta atagattgga agaataattg gccgcctcat cggctccctt ttcattttgt 1620

```

320

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2094)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2096)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 453

```
gcgtccgctg atagctcgat gtgacggagt ctcggattgc aaagacgggg aggacgagta 60
ccgctgtgtc cgggtgggtg gtcagaatgc cgtgctccag gtgttcacag ctgcttcgtg 120
gaagaccatg tgctccgatg actggaaggg tctactacgca aatgttgctt gtgcccact 180
gggtttccca agctatgtga gttcagataa cctcagagtg agctcgctgg aggggcagtt 240
ccgggaggag tttgtgtcca tcgatcacct cttgccagat gacaagggtga ctgcattaca 300
ccactcagta tatgtgaggg agggatgtgc ctctggccac gtggttacct tgcagtgcac 360
agcctgcgtc cgatagaagg ggctacagct cacgcacgtg ggggtgaaac atgtccttgc 420
tctcgcatg gccctggcag gccagccttc agttccagg ctaccacctg tgcgggggct 480
ctgtcatcac gccctgtgg atcatcactg ctgcacactg tgtttatgac ttgtacctcc 540
caagtcattg accatccagg tgggtctagt ttccctgttg gacaatccag ccccatccca 600
cttgggtggag aagattgtct accacagcaa gtacaagcca aagaggctgg gcaatgacat 660
cgcccttatg aagctggccg ggccactcac gttcaatgaa atgatccagc ctgtgtgcct 720
gccaactct gaagagaact tccccgatgg aaaagtgtgc tggacgtcag gatggggggc 780
cacagaggat ggagcaggtg acgcctcccc tgtcctgaac cacgcggccg tccctttgat 840
ttccaacaag atctgcaacc acagggacgt gtacggtggc atcatctccc cctccatgct 900
ctgcgcgggc tacctgacgg gtggcgtgga cagctgccag ggggacagcg gggggcccct 960
ggtgtgtcaa gagaggaggc tgtggaagtt agtgggagcg accagctttg gcacggctg 1020
cgagaggtg aacaagcctg ggggtgtacac ccgtgtcacc tcttctctgg actggatcca 1080
cgagcagatg gagagagacc taaaaacctg aaaaggaagg ggacaagtag ccacctgagt 1140
tcttgaggtg atgaagacag cccgatcctc cctggactc ccgtgtagga acctgcacac 1200
gagcagacac ccttgagct ctgagttccg gcaccagtag caggccccga agaggcaccc 1260
ttccatctga ttccagcaca accttcaagc tgctttttgt tttttgtttt tttgagatgg 1320
agtctcgctc tgttgccag gctggagtgc agtggcgaaa tccctgctca ctgcagcctc 1380
cgcttccctg gttcaagcga ttctcttgcc tcagcttccc cagtagctgg gaccacaggt 1440
gcccgccacc acacccaact aatttttgta tttttagtag agacagggtt tcacctgtt 1500
ggccaggctg ctctcaaacc cctgacctca aatgatgtgc ctgcttcagc cteccacagt 1560
gctgggatta caggcatggg ccaccacgcc tagcctcacg ctccctttctg atcttacta 1620
agaacaaaag aagcagcaac ttgcaagggc ggcctttccc actggtccat ctgggttttct 1680
ctccaggggt cttgcaaaat tctgacgag ataagcagtt atgtgacctc acgtgcaaag 1740
ccaccaacag cactcagaa aagacgcacc agcccagaag tgcagaactg cagtcactgc 1800
acgttttcat ctctaggac cagaaccaa cccaccctt ctacttccaa gacttatatt 1860
cacatgtggg gaggttaatc taggaatgac tcgtttaagg cctattttca tgatttcttt 1920
gtagcatttg gtgcttgacg tattattgtc ctttgattcc aaataatatg tttccttccc 1980
tcataaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2040
aaaaaaaaaa aaaaaaaaaa attaataaaa aaaataaaaa aaaaaaaaaa aannanaaaa 2100
aaaaaa
```

&lt;210&gt; 454

&lt;211&gt; 2288

321

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 454

```
ccacgcgtcc gggggctgca aggacctgag ctcagcttcc gccccagcca gggaagcggc 60
aggggaaagc accggctcca ggccagcgtg ggccgctctc tcgctcgggtg cccgccgcca 120
tgtggggcgt cctgagggtta gccctgcggc cgtgtgcccc cgctctctcc gccggggcgc 180
gcgcctatca cggggactcg gtggcctcgc tgggcaccca gccggacttg ggctctgccc 240
tctaccagga gaactacaag cagatgaaag cactagtaaa tcagctccat gaacgagtgg 300
agcatataaa actaggaggt ggtgagaaag cccgagcact tcacatatca agaggaaaac 360
tattgcccag agaaagaatt gacaatctca tagaccagg gtctccattt ctggaattat 420
cccagtttgc aggttaccag ttatatgaca atgaggaggt gccaggaggt ggcattatta 480
caggcatttg aagagtatca ggagtagaat gcatgattat tgccaatgat gccaccgtca 540
aaggaggtgc ctactacca gtgactgtga aaaaacaatt acggggccaa gaaattgcca 600
tgcaaacagg ctcccctgca tctacttagt tgattcggga ggagcatact tacctcgaca 660
agcagatgtg tttccagatc gagaccactt tggccgtaca ttctataatc aggcaattat 720
gtcttctaaa aatattgcac agatcgcagt ggtcatgggc tcctgcaccg caggaggagc 780
ctatgtgcct gccatggctg atgaaaacat cattgtacgc aagcagggtg ccattttctt 840
ggcaggaccc cccttggtta aagcggcaac tggggaagaa gtatctgctg aggatcttgg 900
aggtgctgat cttcattgca gaaagtctgg agtaagtac cactgggctt tggatgatca 960
tcatgccctt cacttaacta ggaaggttgt gaggaatcta aattatcaga agaaattgga 1020
tgtcaccatt gaaccttctg aagagccttt atttcctgct gatgaattgt atggaatagt 1080
tggtgctaac cttaagagga gctttgatgt ccgagaggtc attgctagaa tcgtggatgg 1140
aagcagattc actgagttca aagcctttta tggagacaca ttagttacag gatttgctcg 1200
aatatttggg taccagtag gtatcgttgg aaacaacgga gttctctttt ctgaatctgc 1260
aaaaaagggc actcactttg tccagttatg ctgccaaaga aatattcctc tgctgttctt 1320
tcaaaacatt actggattta tggttggtag agagtatgaa gctgaaggaa ttgccaagga 1380
tggtgccaag atggtggccg ctgtggcctg tgcccaagtg cctaagataa cctcatcat 1440
tgggggctcc tatggagccg gaaactatgg gatgtgtggc agagcgtata gcccaagatt 1500
tctctacatt tggccaaatg ctcgatatctc agtgatggga ggagagcagg cagccaatgt 1560
gttggccacg ataacaaagg accaaagagc ccgggaagga aagcagttct ccagtgtgta 1620
tgaagcggct ttaaaagagc ccattcattaa gaagtttgaa gaggaaggaa acccttacta 1680
ttccagcgca agggataggg atgatgggat cattgatcca gcagacacca gactgggtctt 1740
gggtctcagt tttagtgcag ccctcaacgc accaatagag aagactgact tcggtatctt 1800
caggatgtaa ctggaataaa ggatgttttc tgttggacat gtactgaaaa ttaacacatg 1860
tagtagcctt aaaatttttag acttctcgaa catgaggctg ttacagtaat ttttttaaca 1920
ctgtgcattg tacttttcta ctttaaaaaa atcagtgagg atattttattt aatgaacatc 1980
aattcctttt aaattttctt agagaaattt ctctgtggct cagttttacc acccataaag 2040
cggagacagt aatttatggg atcctttctg acccacaag tatgaaaagt tctgtaatct 2100
gtaaactcag ttctgtaatc tgtattattg agatgattaa tataaagttg tattttcact 2160
gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2220
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2280
aaaaaaaaaa 2288
```

&lt;210&gt; 455

&lt;211&gt; 2361

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

322

&lt;222&gt; (2256)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2260)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2288)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 455

```
atacttttaca aatgagactg atgacatcgc taatttagaa gcaagtgtgc ttgaaaatcc 60
ttctcatgta caactttggc tcaagcttgc gtacaagtac ttgaatcaaa atgaggggga 120
gtgctcagaa tccttggatt ctgctttaa tggtctggcg cgagcattgg aaaataacaa 180
agacaatcca gaaatttggt gccattacct cagattgttc tcaaaaagag gaaccaagga 240
cgagggtgcag gaaatgtgtg aaacagctgt tgaatatgct ccagattatc aaagcttttg 300
gacttttcta cacctagaaa gtaccttga agaaaaggat tacgtatgtg agagaatgtt 360
ggagtttctg atgggagcag ccaagcagga aacatccaat attttgcct ttcagctttt 420
agaggctctt ttgtttagag ttcagctgca catatttact ggaagatgcc aaagtgcact 480
ggcaatttta cagaatgcat tgaaatctgc taatgatgga atagtagctg aataccttaa 540
aaccagtgat cgatgttttg catggttggc ctacatacat cttattgaat tcaacattct 600
cccttcaaaa ttttatgac catctaata taatccttca agaattgtta acactgaatc 660
atgtgtaatg ccatggcaag ctgttcaaga tgtaaagact aatcctgaca tgttgttagc 720
agtttttgaa gatgcagtga aagcttgac agatgagagc cttgctgttg aggaaagaat 780
agaggctgc cttccacttt acacaaacat gattgctctg caccaactcc tggagaggta 840
tgaggctgca atggagcttt gtaaatcttt attggaatca tgcctatta actgccagtt 900
gctggaagcc cttgttgcac tatatttgca aacaaatcag catgacaaag ccagagcagt 960
gtggcttact gcatttgaaa aaaatcctca gaatgcagag gttttttatc atatgtgcaa 1020
attcttcac ttacagaatc gaggcgataa tcttcttcca tttttgcgga aatttattgc 1080
atccttcttt aaaccggggt ttgagaagta taataacttg gatctgtttc ggtatctctt 1140
aaatattcca ggaccaattg acattccatc tcgtttatgt aaagggaatt ttgatgatga 1200
tatgtttaac caccaagttc cttatttgtg gctgatttac tgcctttgtc atcctcttca 1260
atcaagtatt aaagaaacag tggaggcata tgaggcagca ttaggggttg ctatgagatg 1320
tgatatagta cagaagatat ggatggatta tcttgtcttt gcaaataata gagctgctgg 1380
atccagaaac aaagtccaag aattcaaatt ttttactgat ttagtgaata gatgtttggt 1440
tacagtccct gcccgatacc ccattccttt tagcagtgtc gattactggt ccaactatga 1500
atttcataat aggggttattt tcttttattt gagctgtgtt ccaaagacct agcattccaa 1560
aaccttgga cgggttttgtt cagttatgcc agctaattct ggacttgcat tgaggttact 1620
tcaacatgaa tgggaagaaa gcaatgttca gattctgaaa cttcaagcca agatgtttac 1680
atataatata ccaacatgcc tggccacctg gaaaatagcc attgctgctg agattgttct 1740
aaagggacaa agagaggtcc accgtttata tcagagagcc ttacagaagt tacctctttg 1800
tgcactactg tggaaagatc aactcttgtt tgaagcatca gaaggaggta aaactgataa 1860
cctgagaaaa ctagtttcca agtgccaaga gattggagtc agcctaaatg agctcttaaa 1920
tttaaacagt aacaaaacag aaagcaagaa tcaactgaaca ctgggtgcag tcagttctaa 1980
gtccttataa taattgccaa aattatttga atgattcttc aagattagtc tgatccctgg 2040
ctaaggctctg tgtaaggcag acaagcgtaa ttgatcata caagttccct acaatatcct 2100
gtcctcaaaa ccggaagcaa tgaacatgat cctcttcggg tggataaatg aacttcctgt 2160
ttggcctgct tctaggccct gccagattct cataacatca tatacgtaag tatagttcct 2220
```

## 323

caaagtgact gacatttatt ttaattttgc ttgtntttt tttawtttct ccccatcc 2280  
yttatttngg gttattcctg actcacttga cactctctga tgcctgagag attcctgttt 2340  
gggatttaat atccagggt g 2361

<210> 456

<211> 957

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (32)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (41)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (47)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (49)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (50)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (61)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (64)

<223> n equals a,t,g, or c

<220>

<221> misc feature

324

&lt;222&gt; (67)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (70)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (73)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (75)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 456

```

gcgcgcccc tcttttaaaa aacttngggg gnaccccccc ngggggnntnn caagggaaat 60
ntcngnncan cgnangcggc cccaatcggc acgagcggcc atggcgctcc tgctttcggg 120
gctgcgtgta ctgctgggcg gcttcttcgc gctcgtgggg ttggccaagc tctcggagga 180
gatctcggct ccagtttcgg agcggatgaa tgccctgttc gtgcagtttg ctgaggtggt 240
cccgctgaag gtatttggct accagccaga tccctgaaa ctaccaaata gctgtgggct 300
ttctggaact gctggctggg ttgctgctgg tcatgggcc accgatgctg caagagatca 360
gtaacttggt cttgattctg ctcatgatgg gggctatctt caccttgcca gctctgaaag 420
agtcactaag cacctgtatc ccagccattg tctgcctggg gttcctgctg ctgctgaatg 480
tcggccagct cttagccag actaagaagg tggtcagacc cactaggaag aagactctaa 540
gtacattcaa ggaatcctgg aagtagagca tctctgtctc tttatgccat gcagctgtca 600
cagcaggaac atggtagaac acagagtcta tcatcttggt accagtataa tatccagggg 660
caaccagtgt tgaaagagac attttgtcta cctggcactg cttcctcttt ttagctttac 720
tactcttttg tgaggagtac atgttatgca tattaacatt cctcatgtca tatgaaaata 780
caaaataaagc agaaaagaaa tttaaatcaa ccaaaattct gatgccccaa ataaccactt 840
ttaatgcctt ggtgtaagta tacctctgaa cttttttctg tgcctttaaa cagatatata 900
ttttttttaa atgaaaataa aaccatatat cctaaaaaaa aaaaaaaaaa aaaaaaa 957

```

&lt;210&gt; 457

&lt;211&gt; 923

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (886)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 457

```

aattcggcac gagggcaatc cgggcttgca gacgaggtaa ggtcgattcc atttgcccg 60
gggatggtca cagcgcgggg ggccggaact gccgtgcgcg gcgcggtcgt tgtcgattg 120
ctctcggccg cactcgcgct gtacggggcg ccactggacg cagttttaga aagagcgttt 180
tcgctacgta aagcacattc gataaaggat atggaaaata ctttgagct ggtgagaaat 240

```

## 325

```
atcatacctc ctctgtcttc cacaaagcac aaagggcaag atggaagaat aggcgtagtt 300
ggaggctgtc aggagtacac tggagcccca tattttgcag aatctcagct ctcaaagtgg 360
gcgcagactt gtcccacgtg ttctgtgcca gtgcggccgc acctgtgatt aaggcctaca 420
gccccgagct gatcgccac ccagttcttg acagcccaa tgctgttcat gaggtggaga 480
agtggctgcc cgggctgcat gctcttgctg taggacctgg cttgggtaga gatgatgcgc 540
ttctcagaaa tgtccagggc attttggaag tgtcaaaggc cagggacatc cctgttgtca 600
tcgacgcgga tggcctgtgg tkggtcgctc agcagccggc cctcatccat ggctaccgga 660
aggctgtgct cactcccaac cacgtggagt tcagcagact gtatgacgct gtgctcagag 720
gccctatgga cagcgatgac agccatggat ctgtgctaag actcagccaa gccctgggca 780
acgtgacggt ggtccagaaa ggagagcgcg acatcctctc caacggccag cagggtgcttg 840
tgtgcagcca ggaaggcagc agcgcaggtg tggagggcaa gggganctcc tgtcgggctc 900
cctgggcgtc ctggtacact ggg                                     923
```

<210> 458

<211> 3058

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (418)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3045)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3053)



<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3056)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3057)

<223> n equals a,t,g, or c

<400> 458

```

tctctaataa gcanngcttc tacnganatt csttgctttg ctattttttac aaaacagcat 60
tgattgaagc aagtcttggg ttactaagg tagggtagca tttgctattg gtaaagagaa 120
taaatacact taatttcaca atacattgtt atatgtaccc cagttgttgt tagtggggac 180
tatgatactg taataatatt tttaaaaatt tacatcaaga gaggcagtca ttcacgatgg 240
ttttgtgccg gctcttttta ggggttttga tcacattaga gatattttaga acatattacc 300
ctgtgactta cgtaggaaac ctaatatgct gagtatctgg cacttgaatt cctgctttta 360
ttgctggagg tccacatctg tgggtgacct ctgttattgt ttaaaaaaaa taaataanaa 420
ttaaaaaaat ctgtgcaata atttttaaatt gtgctcccag gaatagacac aaatgttttg 480
cagtatcttt taagctgcat tttcctttag tgatgcattt gtcaattgca ctgaatttaa 540
atctgaaagt cagaggtgat tattgatagt acttttgtat tttgatattg acagtttatt 600
catttgcata cagttattga ctttttccca gctgattaaa agatagtcaa gaaattctgc 660
aatatagctg ccaaaataga cagctacatt tttatgatat tgctatcttt tctgtttytt 720
ttttcttttt tttcttttagc tattttactt aagcataata gccacaatag gacataataa 780
agattataaa tacagagctt tattatcctg acgtcttggg tcttttaagt atatactttt 840
ctgaaaaggta tccattttgt aggcttgggt tcttcatgag catacgattg tttatttttg 900
ctgctgttct caacatcatt attgctgct gatgtgccac gatgctgctc caatagacag 960
caataagatt gtctctaatt tgagcagtaa catgattgca agagaccaag tttcacagct 1020
tgtaaagttc tgtatttggg attcttgctt atttttccgc ctgtgttttt ctgagaactt 1080
attcctgatg atcaattgaa tccagtagtt tttctatgct atttgttggt gtataagcta 1140
ctgtaagaaa cttatcataa ggaaaaatag aaaggaaaac ttgaatcaat actcattgat 1200
taaaatggaa taaagaaaga gcagctgcca ctttttaaca acataaagga atatcttttt 1260
ttgtctccgt gtaggaaatc ccataagttc ttatatattgt tccagttccc atttcctgcc 1320
attgaccaga taacatcatt gactttcaaa tgacttttag aagtgataac tcttaatttc 1380
ctaatagata ctagattgta ttgaattctg ttttaattat tctctaggta agtatgtttt 1440
aggattaaat acctttttaca gatactgaaa gtgcctcctt ttgtggtgta aaaaacaaat 1500
tatggtgcaa aaagtaatca ctagattgaa atacatgaag gttttttgct ttttgacata 1560
cgaaaatgtc aagagaaagg ccaaagattt gtactttttc acttacaag cactcctttt 1620
tcccttaaac ttctttctgt caaattagat ttaatgagag agtactattt ttaaggagct 1680
atctgtttat gtagaatgat tttgttaaga gtaatgtaaa ctattattga gtagaggcct 1740
aaagaggact gtgcattttt gctattttaa ggaatcacia atgatcatac ttaagtgagc 1800
aaaaatgaca agttttacta gctaagtaga gaaataaatc tcaaatgcag cgctacaatt 1860
ttcattatct taagtacatt gtacatttct acagaacctg tgattattct cgcattgata 1920
ggatggtact tgcataatgt gaattactac tgttgacagt ttccgcagaa atcctatttc 1980
agtggacca cattgtggca tggcagcaaa tgccaacatt ttgtggaata gcagcaaatc 2040
tacaagagac cctgggttgg ttttcgtttt gttttctttg ttttttcccc cttctcctga 2100
atcagcaggg atggaaggag ggtaggggag ttatgaatta ctccttcag tagtagctct 2160
gaagtgtcac atttaatatc agtttttttt aaacatgatt ctagttaaat gtagaagaga 2220
gaagaaagag gaagtgttca cttttttaat acactgattt agaaatttga tgtcttatat 2280

```

327

```
cagtagttct gaggtattga tagcttgctt tatttctgcc tttacgttga cagtgttgaa 2340
gcaggggtgaa taactagggc atatatTTTT ttttttttTg taagctgttt catgatgttt 2400
tcttttgaat ttccggataa gttcaggaaa acattctgca tgttgatatc agtctgatgt 2460
acttatccat ctcattacaa acaaaaacac acagactgca tttgtagctc tgtaatcctt 2520
gaatacggaa gttaaattttc ttctttcctg actttgacat tgtagctata ctgtttccat 2580
ttttgttttt acaaatcctt tgggtctaata tctgtgagcc tacctatagc actggattaa 2640
aatgtctgca tcatttcttt agttatccag ttaactttaa aactgttgta aaagtgtaaa 2700
ccagcccatg acaggttttt gtacatgtta aagaacttca ttgttcagtt ttcattgatta 2760
ttgtgtaagg aagactgatg tagatgttct gtgctgtcct ggaccatgtt aattacactt 2820
acgacgtatt ttagttccac atcacaatga tttgtcccca gtgacctttt taccctttct 2880
aggcacattt cttgttggtg ttgttggtgc agttcccctt tgcattgtat tgctttgaca 2940
actgtaattt gaatcagatc tgaaagaggt ccagaataaa atatatTTTg atattaaaaa 3000
aaaaaaaaaa aaactcgagg gggggcccgt acccaatcgc ctgtnatgta tcntannc 3058
```

&lt;210&gt; 459

&lt;211&gt; 555

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 459

```
aaactggaac aatgaaaccc aaacactttc accacacttt gggcttttga tttctcacar 60
rgggargtta accmaactyc caaaggttta ataccycaa cmccttcccc ttgagtgtga 120
cycacattgt taggtgctga cctagacaga ratgaactga ggtccttggt ttgttttggt 180
catatacaaa ggtgctaatt aatagtattt cagatacttg aagaatgttg atggtgctag 240
aagaatttga gaagaaatac tcctgtattg agttgtatcg tgtggtgtat tttttaaaaa 300
atttgattta gcattcatat tttccatctt attcccaatt aaaagtatgc agattatttg 360
cccaaagttg tcctcttctt cagattcagc atttgttctt tgccagtctc attttcatct 420
tcttccatgg ttccacagaa gctttgtttc ttgggcaagc agaaaaatta aattgtacct 480
attttgtata tgtgagatgt ttaaataaat tgtgaaaaaa atgaaataaa gcatgtttgg 540
ttttccaaaa aaaaaa 555
```

&lt;210&gt; 460

&lt;211&gt; 612

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (595)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (599)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (600)

&lt;223&gt; n equals a,t,g, or c

328

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (606)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (612)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 460

```
ggccactcag agtgggtgtc ttgtgtccgc ttctcgcca acagcagcaa ccctatcatc 60
gtctcctgtg gctgggacaa gctgggtcaag gtatggaacc tggctaactg caagctgaag 120
accaaccaca ttggccacac aggctatctg aacacggtga ctgtctctcc agatggatcc 180
ctctgtgctt ctggaggcaa ggatggccag gccatgttat gggatctcaa cgaaggcaaa 240
cacctttaca cgctagatgg tggggacatc atcaacgccc tgtgcttcag ccctaaccgc 300
tactggctgt gtgctgccac agggcccagc atcaagatct gggatttaga gggaaagatc 360
attgtagatg aactgaagca agaagttatc agtaccagca gcaaggcaga accaccccag 420
tgcacctccc tggcctgggtc tgctgatggc cagactctgt ttgctggcta cacggacaac 480
ctggtgcgat ktggcagtga ccattggaca cgctagaagt tatggcagac ttacaaataa 540
aaaaaaactg gctttttgaa aaaaaaaaaa aaaggcggcc gtttaaagac caacntacnn 600
ccctgnttca an 612
```

&lt;210&gt; 461

&lt;211&gt; 882

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (852)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (877)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 461

```
tttccttctc cctttcttgg ccctcctctg ctccctccca caccctgcag gcaaaacaag 60
gaagagatca tcaattatga aatttgaaca ccaagggacc tgggtgtgcct gggcctgagc 120
agcatcggtg gcgtctggtg cctgctgagg aagcactgga ttgccaacaa cctttttggc 180
ctggccttct cccttaatgg agtagagctc ctgcacctca acaatgtcag cactggctgc 240
atcctgctgg gcggactctt catctacgat gtcttctggg tatttggcac caatgtgatg 300
gtgacagtgg ccaagtcctt cgaggcacca ataaaattgg tgtttcccca ggatctgctg 360
gagaaaggcc tcgaagcaaa caactttgcc atgctgggac ttggagatgt cgtcattcca 420
gggatcttca ttgccttgct gctgcgcttt gacatcagct tgaagaagaa taccacacac 480
tacttctaca ccagctttgc agcctacatc ttgggcctgg gccttaccat cttcatcatg 540
cacatcttca agcatgctca gttatgagga gtcaaatcct aaggatccag cggcagtgac 600
agaatccaaa gagggaaacag aggcacagc atcgaagggg ctggagaaga aagagaaatg 660
atgcagctgg tgcccagagcc tctcagggcc agaccagaca gatgggggct gggcccacac 720
```

329

```

aggcgtgcac cggtagaggc acaggaggcc aaggcaktct caggacargg cagggggcag 780
caggatacct ccagccaggc ctctgtggcc tctgttttcc ttctcccttt cttggccctc 840
ctctgctcct cnccacaccc tgcaggcaaa agaaaanccc ca 882

```

```

<210> 462
<211> 733
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (640)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (660)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (677)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (687)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (711)
<223> n equals a,t,g, or c

```

```

<400> 462
tccccatggt tctcctacct aaatgattgg ttccctatg gctatttctc caagagttaa 60
gggatagctg cttaactatg cacctttaca gaacattctt agcagtaatg ctcaaattta 120
aaaggcacac tcaagatact tccatgtcat ggatcccttc ccagggtcca gtartataaa 180
tatagggaag aggttagcat gaacttacwa attgttttaa gtaatcctct tgaatgccag 240
tcattaaagg actttgcccct tctacatcaa attacatcct ttccacaaat ccccatcttct 300
gtaataactg gtgcaaacct aaagggtgctt tatagtttta ctactttgca gatttgcaat 360
gctgcatata atgcagaaga gcattaaaaa cttttgtaaa aactcatgat ttgataaac 420
ttttaagta gcgtttatat gtaaatagaa ctacacatgg gcacacacac ttgcacargg 480
gcttcagaaa aacgtgcaat atagggtgagg aaaaatgtct attgaaactt tctcacaggc 540
tgcccttatt aattaaaact agtggtgggg gcaagcaaca tctgtttcca agtaggttca 600
ggggactagg caaaccttaa agggcggcag gcggcctgen gtttgcttca ttccttaggn 660
ttactgggtt cctacanctg gttttanttg tcttaggtgt ggactttgga nggtacagtg 720
tttgtggctt ttt 733

```

```

<210> 463
<211> 574

```

## 330

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (18)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 463

```

ntctcaatta aacaaaanaa aaaagtggag aactggcagt gacctctact gggggccatg 60
gcagggaggg gagccttctg gaagggctgc cttggagatt ggaatgggga ctcccagggg 120
gacctgcgtt ccattccctgc ctgcctcacc cctgccacag actctgcaca ccactggatg 180
gtgggtccaa gcttggcaca gtccctgtgc ttgtcagagt cattattatg attaatatca 240
attacgatgc caaaaattgc tgggcaaaact ttgaagacct caacttgta caatgacgat 300
gatgatgatt cttggcggtt acacaatcct tcctcctggg ggggaggcag ctaggaggcc 360
cagcaggggg gcttctatgc tgctgggctc ccctagggag ttggggtagt ctgtgccaac 420
tccaggcagc tgctgtggcc tcacccctgg gcccccaat tttgggtcat ccattcctcaa 480
atacactatt tttgcttgta tgctgtgtc atttgttggg tgtacagagg ggatataggg 540
agagtggtag gcttcccaca cagaaactag gaca 574

```

&lt;210&gt; 464

&lt;211&gt; 691

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (5)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (7)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (9)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 464

```

gtacnngnant cccgggtcga cccacgcgtc cgcggaaggt ccttctgaat cccttccctg 60
ttccttaggt tgcactagtc ggggggtcca tgctgggggg cagaaggaat gctctctacc 120
gtctgaaacc gttcatcagg aaggccttga tttgtgatgt gctaggagag cacaggatct 180
gcaaatagaa ggcacctgtc tcccttctgc aggccgagga gaggccgcca tggactgtgt 240
gcttcttcat ggcttgttta ctcttcttct acagacccta cagcttgggg cctgggctcc 300

```

## 331

```

tctgaccatc ctcattgaga aaggaaagtg agtccagaga agttgatgct tcctacctgt 360
tggagcggcc cagcagtgtg agcgtgggtg ttactgcccc atccgccatg tccttcagtg 420
ccaccattct cttctccctt cccagtggca gcgaggccag atgctgctgc tgcgctgtg 480
agagtggagc taatggaggc aacacaggct cccaggggtg gaatcctcct cccagcacc 540
ccatcacagt gactggacat ggcttggctg ttcagagctc agagcagctc ctgcatgtta 600
tctaccagcg ggctcgataag gcagtgggtt tggtgaagc tgctctgggt cttgccaggg 660
ccaacaatga gttgttaaaa cgtcttcagg g 691

```

```

<210> 465
<211> 260
<212> DNA
<213> Homo sapiens

```

```

<400> 465
atgagtcaca tttattgatt tgcattwtgtt gaatcaacct tgcattcctgg ggacaaagcc 60
aactccattg ttgcratga actttttaat rtgctgctgg atttggttg ccagtatttt 120
attgaggatt tttgcacagt gtttaccaaa gacattggca tgatgtgttg ttgttgttgt 180
tggttgtgtg gtatctatga taggttttgg tatctggatg atgctggcct gataggaatg 240
agttagagag aacttcctta 260

```

```

<210> 466
<211> 851
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (584)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (727)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (755)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (761)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (793)
<223> n equals a,t,g, or c

```

```

<220>

```

332

<221> misc feature  
 <222> (825)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (842)  
 <223> n equals a,t,g, or c

<400> 466  
 gcgttcgcgt ggggtcccgcc cccacactcc gccagaggg gcctcagctt ttccaccact 60  
 gctttctagt cctttaactc ctagaggcaa acttttgggg gataagaaag cctgggaggg 120  
 gcctgtgcc aaacctctc tgctgggga ctgggcggtg attccgcttc tgctgggct 180  
 cctgccatgg ccccgagag gggctgacac tttagctccc ggtgcaggtg agaaccgcc 240  
 cggaggaaga aggaaggcgc gggccgggga ttaggagacg gaggcggact cggagccagg 300  
 gaaccagggg tccgggctag agctggagtc gtgagcgcgc gcccgccccg ctctgggagg 360  
 accgcgagat gccctgtctg aagcagctgg gcccgcgca gcccaagaag cggcctgac 420  
 gcggcgccct gtccatctcc gcgcgctcg ggcacttccg gcacacgctg cactgggggc 480  
 gcggcgggga cgccttcggg gacacctcgt tctgagccg ccacggcggc gggcgcccc 540  
 cgagccccgg gcgcccccg cgggggcccc gkctccccg ccgncgcgc cgtccgcagt 600  
 ccgcagcgcc tcgctgcga cccgctgtgc cttcacctgg atctggggcc tcatgctgga 660  
 cgcggtgctg gcgtatggac gcggcgcgcc gaagcggtg cgcaagccac gcgaaccgc 720  
 ccggacnagc ccagccgtg cgccacgca ctcantacac natggcttag tctatccggc 780  
 tccgccgacc atntgtctaa cgcagggggc gaaaaaaaaa aactngggcc gaccatcgct 840  
 tnggcatcat t 851

<210> 467  
 <211> 503  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (498)  
 <223> n equals a,t,g, or c

<400> 467  
 ggcgcagacc ccgatcccg ctgcgggtca ctagtgtctc agaccagaat gacagagtgg 60  
 ttgagtgcc gctacagacc cataacagca agatggtgac cttccgattt gatctggatg 120  
 gggacagccc ggaagagatt gcagctgcc tggatatataa cgagttcatt ctgccttcgg 180  
 agcgagatgg atttctcaga cggattcggg agattatcca gcgagtggag accctgttga 240  
 agagagacac tggccccatg gaggtgctg aagacaccct aagccccag gaggagccag 300  
 caccattacc tgccctgccc gtccccctcc cagaccatc caatgaagag ctccagagca 360  
 gcacctccct ggagcacagg agctggacag cttctccac ctccttcatt ctttcttcc 420  
 gggaactcct ttgtctcctg ggaaacccat ttccctcctg aacccccatt tccccaggg 480  
 tcccatkttt ccccatcnat ttt 503

<210> 468  
 <211> 1905  
 <212> DNA  
 <213> Homo sapiens

333

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (933)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (940)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 468

```
ggcacaggac cagtggagtg agctgttcat ggatgcgcta gggcccttca acttcgtgct 60
ggtgagttcg gtgaggatgc aggggtgtcat cctgctgctg ttcgccaagt actaccacct 120
gcccttcctg cgagacgtgc agaccgactg cacgcgcact ggcctgggcg gctactgggg 180
taacaagggg ggcgtgagcg tgcgcctggc ggccttcggg cacatgctct gcttcctgaa 240
ctgccacttg cctgcgcata tggacaaggc ggagcagcgc aaagacaact tccagaccat 300
cctcagcctc cagcagttcc aagggccggg cgcacagggc atcctggatc atgacctcgt 360
gttctggttc ggggacctga acttcgcgat tgagagctat gacctgcact ttgtcaagtt 420
tgccatcgac agtgaccagc tccatcagct ctgggagaag gaccagctca acatggccaa 480
gaacacctgg ccattctga agggctttca ggagggggcc ctcaacttcg ctcccacctt 540
caagtttgat gtgggtacca acaaatacga taccagtgcc aagaaacgga agccagcttg 600
gacagaccgt atcctatgga aggtcaaggc tccagtgagg ggtcccagcc cctcaggacg 660
gaagagccac cgactccagg tgacgcagca cagctaccgc agccacatgg aatacacagt 720
cagcgaccac aagcctgtgg ytgcccagtt cctcctgcag tttgcctttc agggacgaca 780
tgccactggt gcggctggag gtgggcagat gagtgggtgc ggcccagca ggcggtggtg 840
aggttaccgc wtggaaacak tkttcgscg cagytctgga gactggatcg gcttataccg 900
ggtgggtttc cgccattgca aggactatgt ggnntatgtn tgggccaac atgaagatgt 960
ggatgggaat acataccagg taacattcag tgaggaatca ctgcccagg gccatggara 1020
cytcwtctcg ggctacyata gtcacaacca cagcatcctc atcggcatca ctgaaccctt 1080
ccagatctcg ctgccttctt cggagttggc cagcagcagc acagacagct caggcaccag 1140
ctcagaggga gaggatgaca gcacactgga gctccttgca cccaagtccc gcagccccag 1200
tcctggcaag tccaagcgac accgcagccg cagcccggga ctggccagggt tccttgggct 1260
tgccctacgg ccctcatccc gtgaacgcg tggtgccagc cgtagccctt caccacagag 1320
ccgcgcctg tcccagagtg ctcctgacag gagcagtaat ggcagcagcc ggggcagtag 1380
tgaagagggg ccctctgggt tgcctggccc ctgggccttc ccaccagctg tgccctgaag 1440
cctgggcctg ttgcccgcct tgcgcctaga gactgtagac cctggtggtg gtggctcctg 1500
gggacctgat cgggaggccc tgggcgccc aagcctgtct cctagtcccc agggccatcg 1560
ggggctggag gaagggggcc tggggccctg aggggtgggt aggcagatgg gccaaggtga 1620
ccaccattct gcctcaatct tttgcaagcc cactgcctc tctcctgctg ctcctccagc 1680
tgtatctgca cctgcctctc tgtcctggcc aggggtggac aactggggtc ccccaaaact 1740
cagtcctggc acctcaactg tgacaatcag caaagcccca cccaggcccc catctgggat 1800
gatgggagag ctctggcaga tgtcccaatc ctggaggtca tccattagga attaaattct 1860
ccagcctcaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 1905
```

&lt;210&gt; 469

&lt;211&gt; 775

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 469



334

```

ggaagaaagt acactaacac ttctaggagc ctcttctcag aattgtagtt attccaaaat 60
agcaaatagt tggcataaag ggaaggatta tgtcagcaaa acctttttta aaatccttat 120
ttgattaatg atggtaaaaa ctaaaaaaaa acagagtttt ctattaaaat agcctatggc 180
cttggctaag acagctatcc tagtaagatt atcttatttt ctatttatag acacatccac 240
tyaaactgca tttttatcca gcgttgatct tcacactcac tgttcctatc aactcatggt 300
gccagaggcc attgccattg tttgctcacc aaagcataaa gacactggca tcttcagggt 360
caccaatgct ggcattgctt aggttttctgc ttgtaaaaaa aagggtcttc atccacacac 420
caaggagccc aggctgttca gtatatgcaa acatgtgttg gtaaaagaca taaaaataat 480
tgtgttggat ctgaggtgat atgttctgaa tgtaagcacc gtcaacatca gacacctact 540
catggacatg tgggtgccgg attttcttaa gatgtttcca gaaatgactg atattttata 600
tttatacatt ttagatgaca aagcttgata ttattgtctg ttgcacattt taaagttttc 660
tttttgggtt gctctgtgtc aagagaggtt acatggtgtt aaatcggtag ctgataatgt 720
acccaaatac tatggccaga taataaattg tgctgcaaam aaaaaaaaaa aaaaa 775

```

&lt;210&gt; 470

&lt;211&gt; 1297

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (5)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (26)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (31)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 470

```

tccgnaattc ccgggtcgac ccacngtcc naatcaagct ctaagtcttt ggaccctctg 60
tggaaacatt tctaaccgga attttaattt ggccctttca accaaaggct tagagtggta 120
gcaagggatt tcttccaata ggaaacctga tgtttctgat ttaaagagaa ggtgatattt 180
taattgtttg aattaagctc cttgcaaagt tcgggtgtgt ttaacctctt agggctttct 240
ttcccagtc aacgtaacac attttgtaa atgatccctt tccctgctca cattgtgtgt 300
catttctcat catcagtagt cctccagcct gggcagctgt cccaccctt tttcatgtag 360
gtgcaggaag ttaaattctc tttccaggat gcatgtgaac atttacaag ttgaactttg 420
agtgcattct gctcatatga attattggga ttgttgatat atattgtatt atgctaccaa 480
agaaatattg gttttattag aaggaaatgg tcatcctctg gaccatggag actagctcag 540
aatacgtga tttccctctc ctgactttgc caagcctttg gctgcttttg cctgataaag 600
ggcagggcca tctgaagaca cttccccag tcggcttttg agtcaaggga gctagtgcct 660
gtcacacat ttttcaaaag ggcagtgac tcagaacttc actgtacctg ggatttttaa 720
ttcctcttgc agtgttgacc agcagagaga cttgaggcta ctttaagcct ccactatgtg 780
tttgtagata aaattctcca ttcaaacatt ttaaaggact ttgaacatta tctgcttatg 840
gaagttgtgc ctttcaattg gtttagtaacc acctcagcca taatacttac catcataggt 900
ttcttaaaat gctttttttt tttccctaaa cttgagtttc cttagtgatt tcaaaatgaa 960

```

335

```

gtataagaat atcagatcca gttagcaaaa gcctaggact tgtttctcca aacattgtac 1020
taacattcaa cttgttttaa aattatgact caagaatttt aaaaaattat tctggacatg 1080
aattaaaact tttttataat ataagtattt ttctgattga aaaaaggata taattgactt 1140
cactctaatt gtcatgtata ttcccataag taaatggatt ttgaagtatt tttatttttt 1200
gaactttatt taaagcattt gtgatgacat gttcaacttt tgcattgtatg tagcctttga 1260
agtaaaaaata aataggaatg ttaggctcac gttaaaaa 1297

```

&lt;210&gt; 471

&lt;211&gt; 2155

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 471

```

aatatagtaa tttttaaaatt tgtaataaat gaaaaccctt aagcatgcag gatgaggtat 60
ttgggttttt tttttagatc gatcacatct acagaaaatg gctaaaccaa gttaactttt 120
attatagaca gtgaataaaa caccaaaaac ccaaaaatgc tttaaccaca gtataaataa 180
tagattatac acatcatctt aataactatt ttttaagttat ttaccatagc ctctgtatag 240
accttaggaa cagtgtttca gtgatctggc accagtttat tttgttctgc tgaaattctg 300
tatcacaaat gtgctacctg gtttttgtcc attagataat tactctttat aaggaaagga 360
aagagaagca gagttagttc cagctctaatt agggatcttc aaagttattt tgtcttgatg 420
tatgtaacag taattcttta catcttttga tttttctctt cctttttatt cactcttccc 480
acgaatttaa atgtttaagt tatattcatc actagcaagg atgrtaaaca cttgtgcact 540
gaaagctaac agggagaggg tacacaatat ttacagktt cttaaacata atttartgca 600
tcaccttcca cttgctaaca taccaagtca gttattttca agggaagaac cttttaaatt 660
atggctctcc atttactact tccactgaga gtatgctctc attcctcagg tgttttgaga 720
aacatgacta ataaccacac aattaagtag agtcattcca agtcctatgg cctggaaatt 780
gtattcccta taatatacaa attttcctgt aataaagtca acttagaaac tccaaggagg 840
ttacatgttt tccaacatat cctaaaaact gtgatataag ctaacatata atttgcctta 900
cgtcaaaaga atatgttttg ttgcagctga ttccagttta taatagatcc ctagtaaaaa 960
gctttgattc aacacaattg ttcattctca catcccaaac agaatacactg tttcttgaat 1020
atataatttt gaagtttttt tgtgcaatat attactaaat cagttattat tttacttttc 1080
caaattcaga gaaagaaaac agattacctg aattcatgga aaaggtggat cacctccctt 1140
tttccacctt caagcctttc ctgtcctcat agccagcatg acttctttta acttggattc 1200
ctttgtatat agtaaagttt agtatatata tatttttttc tttttgctac tttctgagge 1260
attatgtaaa gggctcatal tagatgttca gttaaatata ctttagcaca aagtcaaact 1320
agagaatgtg ttaaggaggg aatgtatatg tcttggtaga ccaggaggcc tttgccagca 1380
atthaagcaa cagatgtgaa tacttcacaa agctgtaaag accattgtct taaatactac 1440
aacaacttaa cacccttttg tgaagatcac agcattttatc taagaaactg tgaggctttc 1500
tgggtttacat atatcttaca ggtgtttttt tgtatttttt ttttttttta gtttgaaatg 1560
tgtaagcttt gatttaaacc aagtttactt cagtatgtta atgatgtagt aaaaatat 1620
attgaaaggt gaattcgagt attttaatgt tatacctgcc attttttttc ttaaagcata 1680
ttctttgcat ctaactgcca gtgccattgt caaaacttat tttttaaatc gttgtacatt 1740
tcttattaaa ctaagtgtct aattttaaag tattatgttg ccatcatata gtgtataaaa 1800
atgtataaatt gccaatgtat tgtaactatt atttattttt aaatgaaagt gtaagaatgc 1860
tttctgattc aacaaatttg ttatcaaact gtttccttat cctcttttct gatgtagcat 1920
aaaaattgtc coggtttgag ttataactgc cagtagatga ccagtcacaa gtgaaccact 1980
tctcagttgc caatctttgc tcatattaaa aacaacttac aaatacttag tttttgtatc 2040
taatctctga ttattaaaaat gtttataaag tttattttta ccaagagat gcaattcatt 2100
atgagaaagt attgcataat aaattttgtt ttataacttt aaaacctgtg ccgaa 2155

```

&lt;210&gt; 472

## 336

<211> 459  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (368)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (416)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (437)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (447)  
 <223> n equals a,t,g, or c

<400> 472  
 gcggagatgc agctcaaggg gaagaaaggt ggtgcggggc tgcgggaggc acagaggggg 60  
 ccggttaactt gtggaggggc ggcctgacaa aggccgggag cggagggacc gtgcgaggag 120  
 cagtgattga wctgccgtcc aatcccagct ctgccgctga ctagttttga aacctgtaga 180  
 aaggctccgt gtctgcttta attaccggtc cccccaggat tgtttcaaga attcagtagc 240  
 tgaggctggg agtgggtggt ttgtaatccc agcgctttgg gaggcctggg cgggaggatc 300  
 gcttgagccc gagaccggcc tgggtgacat ggtgagatct cgtctctaga ggaatgcaaa 360  
 ggttggcncg ggcgtggtgg cgcacgcctg tgggtccggc tgcttgggag gctggngtgg 420  
 gaggattgct tgaccnnga ggtcaanggc tgcactgca 459

<210> 473  
 <211> 710  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (65)  
 <223> n equals a,t,g, or c

<400> 473  
 cctcgtcata ttctaagata tccctaagaa attcttcaaa agtaacggaa tcagcatctg 60  
 tgatncaatc ccaggatgtg agtgggtctg aagatacatt cccaaataaa cgacctaggc 120  
 tagaagataa gactgttttt gacaattttt ttatcaagaa agagcaaata aaaagcagtg 180  
 gtaatgatcc aaagtatagt acaaccacag ctcaagaattc cagcagttca tccagtcaga 240  
 gcaaaatggt taattgcccc gtttgtcaga atgaagttct ggagtctcag attaatgagc 300  
 acttgagctg gtgccttgaa ggtgacagca tcaaagtcma aagcgargaa agtctttgaa 360

337

```

aaagggtttca aagtctcaag taccacctgt attatctcac taatgtgcta tgtcagccag 420
tcaggaagtt ctgggttaata ctaagatttg taggttataa tctagttcac ataaccaata 480
gaaagtgtcc tattttatat atacgcataa aagattgtaa ttttaagatg ttttgtgtct 540
cagggtgcta cattcactct tgccttaggt atactgtaac ccaggttctg cctgtcgtgt 600
ataattttta gatacttttg ttctttcttg ctcttaagga ttttaaaaac ctgktaatct 660
ttttatttgt atacttttct aaaaatattc atatggggaa tcctgtcaaa 710

```

&lt;210&gt; 474

&lt;211&gt; 1279

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 474

```

gcccacgcgt cgcgcgcaag ccaacagggg tgtcgtgcgg tgggagtact tccgcctgcg 60
tcctctgcgg ttcagggccc ctgcactgag gctgcagaag tcccagtcac ctgatctgct 120
ggaaagggag agggagagtg tcctgcgcgg ggagcaagag gtkscagagg agcggagaaa 180
tgctctcttc ccagaggtct tctcccaac gccagatgag aactctgacc agaactccag 240
gagctcctcc caggcatccg gcatcacggg cagttactcg gtgtctgagt ctcccttctt 300
cagccccatc cacctacact caaacgtggc gtggacagtg gaagatycag tggacagtgc 360
tcctcccggg cagagaaaga aggagcaatg gtacgtggc atcaaccct cggacggtat 420
caactcagag gtcctggaag ccatacgggt gaccggtcac aagaacgcca tggcagagcg 480
ctgggaatcc cgcacttacg ccagtggga ggatgactga gcctcgggat ggggcgcccc 540
ccccctgccc tgccctgacc ctctgtggaa ctgccaaag catcgccaag ccccccacct 600
aggaaatggg tcctaggtcc aggatccaag aaccacagct catctgcca caatcccacc 660
atgggcacat ttgggactgt tgggttttct gtttccgttt ctatcttctt ttagaaatgt 720
ttctgccttt ggggtctaaa gcttttgggg atgaaatggg acccctgctg attctttctg 780
cttctaagac tttgccaaat gccctgggtc taagaaagaa agagaccgc tcctccactt 840
tcaggtgtaa tttgcttccg ctagtctgag ggcagagggg ccggtcaaag aggggtggcac 900
agatcgcagc accttgaggg gctgcgggtc tgagggagga gacactcagc tcctccctct 960
gagaagtccc aagctgagag gggagacctg cccctttcca accctgggaa accatccagt 1020
ctgagggagg aggccaaact ccagtgtctg ggggtccctg tgcagccctc aaacccttca 1080
ccttggtgca ccagccaca cctggtggac acaaagctct cacatcgata ggatcccatg 1140
aggatggtcc ccttcacctg ggagaaaagt gaccagttt aggagctgga ggggggtctt 1200
tgtccccac ccccaaactg ccctgaaata aacctggagt gagctgcca aaaaaaaaaa 1260
aaaaaaaaaa aaaaaaaaaa 1279

```

&lt;210&gt; 475

&lt;211&gt; 480

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (354)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (371)

&lt;223&gt; n equals a,t,g, or c

338

<220>  
 <221> misc feature  
 <222> (470)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (475)  
 <223> n equals a,t,g, or c

<400> 475  
 tgactcgagcagg tggagtcagt caacaaccca ggtctcctgg ctcttaagac gtttcctttt 60  
 taatattata ggaatgggaa tgctggctcc ttttacagta ctgggccctt tacactgtac 120  
 tgcatactcg ttttttcagt ggatatatga gcttcttgct aaaattatgt ggggtcccatg 180  
 aagaaacatc taaccagggg aagggggaag gattgagaca taagacgtac ttatataaga 240  
 tttcttttaa gaattccaat cttggacatg ttaaattttt ttatattttc tcatgtttaa 300  
 atctcagttc gtttttcagt ctgtgctcag cacgtaagtg tggggaaatg gacnaagggg 360  
 gctgcgggaa ngaccgctgg ctgggctcaa catgcctgtg ctttttcccc ttcattgtgtt 420  
 cttgtgtctg atgcattctt aacacagaat gacattttac tgtttttcan aaaanaacct 480

<210> 476  
 <211> 947  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (3)  
 <223> n equals a,t,g, or c

<400> 476  
 ttnggccgag cttgggtcat ggcggcgccg ggcgcgctgc tggatgatgg cgtgagcggc 60  
 tcggggaaat ccaccgtggg cgccctgctg gcattctgagc tgggatggaa attctatgat 120  
 gctgatgatt atcaccggga ggaaaatcga aggaagatgg gaaaaggcat accgctcaat 180  
 gaccaggacc ggattccatg gctctgtaac ttgcatgaca ttttactaag agatgtagcc 240  
 tcgggacagc gtgtgggtct agcctgttca gccctgaaga aaacgtacag agacatatta 300  
 acacaaggaa aagatggtgt agctctgaag tgtgaggagt cgggaaagga agcaaagcag 360  
 gctgagatgc agtcctggt ggtccatctg agcgggtcgt ttgaggatcat ctctggacgc 420  
 ttactcaaaa gagagggaca ttttatgccc cctgaattat tgcagtccca gtttgagact 480  
 ctggagcccc cagcagctcc agaaaacttt atccaaataa gtgtgggaca aaatgtttca 540  
 gagataattg ctacaattat ggaaacccta aaaatgaaat gacaatgatt ttgtatcagt 600  
 ggtccaaaca gaactaagca taaatcattg tgccatccca aacctcgctc cagccgcctt 660  
 gcccatacta gattctaaat gtttctaaag gcaaacccca atgtgtcaag acagacttgt 720  
 ttaggtgtaa ttttaggaat tatgctggtt catcaggaag cagaggggga gttttaaaag 780  
 tcaagcttaa attgaagttt aaattcatct ataaccaaat caaatgatca gaggaaattc 840  
 tgtaattcaat gctggaaatc gttacattgt ttagaacatt cttgctcatg cctgtatttg 900  
 cacaaataaa tgaaacttcg ctgtcaaaaa aaaaaaaaaa aaaaaaa 947

<210> 477  
 <211> 585  
 <212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (547)

<223> n equals a,t,g, or c

<400> 477

```
accaggacca cggggcctgg ctgcgcggcg gggatgtgtg gctggacagc tgccggtttg 60
ctgacaatgg cattggcctg accctggcca gtggtggaac cttcccgtat gacgacggct 120
ccaagcaaga gataaagaac agcttgtttg ttggcgagag tggcaacgtg gggacggaaa 180
tgatggacaa taggatctgg ggccctggcg gcttggacca tagcgggaagg accctcccta 240
taggccagaa ttttccaatt agaggaattc agttatatga tggcccatc aacatccaaa 300
actgcacttt ccgaaagttt gtggccctgg agggccggca caccagcgcc ctggccttcc 360
gcctgaataa tgctggcag agctgcccc ataacaacgt gaccggcatt gcctttgagg 420
acgttccgat tacttccaga gtgttcttcg gagarcctgg gccttggttc aaccagctgg 480
acatggatgg ggataagaca tctgtgttcc atgacgtcga cggctccgtg tccgagtacc 540
ctggctncta cctacgaaga atgacaactg gctgggtccg cacc 585
```

<210> 478

<211> 3470

<212> DNA

<213> Homo sapiens

<400> 478

```
aattcggcac gagaaggatc gggggcctcg ccgctctgtc tcattccctc gcgctctctc 60
gggcaacatg gcgggtgtgg aggaggtagc ggctccggg agccacctga atggcgacct 120
ggatccagac gacagggaag aaggagctgc ctctacggct gaggaagcag ccaagaaaaa 180
aagacgaaag aagaagaaga gcaaagggcc ttctgcagca ggggaacagg aacctgataa 240
agaatcagga gcctcagtgg atgaagtagc aagacagttg gaaagatcag cattggaaga 300
taaagaaaaga gatgaagatg atgaagatgg agatggcgat ggagatggag caactggaaa 360
gaagaagaaa aagaagaaga agaagagagg accaaaagtt caaacagacc ctccctcagt 420
tccaatatgt gacctgtatc ctaatggtgt atttcccaa ggacaagaat gcgaataccc 480
acccacacaa gatgggcgaa cagctgcttg gagaactaca agtgaagaaa agaaagcatt 540
agatcaggca agtgaagaga tttggaatga ttttcgagaa gctgcagaag cacatcgaca 600
agttagaaaa tacgtaatga gctggatcaa gcctgggatg acaatgatag aaatctgtga 660
aaagttggaa gactgttcac gcaagttaat aaaagagaat ggattaaatg caggcctggc 720
atttcctact ggatgttctc tcaataattg tgctgcccac tatactccca atgccgtgga 780
cacaacagta ttacagtatg atgacatctg taaaatagac tttggaacac atataagtgg 840
taggattatt gactgtgctt ttactgtcac ttttaatccc aaatatgata cgttattaaa 900
agctgtaaaa gatgtacta acactggaat aaagtgtgct ggaattgatg ttcgtctgtg 960
tgatgttggg gaggccatcc aagaagttat ggagtcctat gaagttgaaa tagatgggaa 1020
gacatatcaa gtgaaaccaa tccgtaatct aaatggacat tcaattgggc aatatagaat 1080
acatgctgga aaaacagtgc cgattgtgaa aggaggggag gcaacaagaa tggaggaagg 1140
agaagtatat gcaattgaaa cctttggtag tacaggaaaa ggtgttggtc atgatgatat 1200
ggaatgttca cattacatga aaaattttga tgttgacat gtgccaataa ggcttccaag 1260
aacaaaacac ttgttaaatg tcatcaatga aaactttgga acccttgctt tctgccgcag 1320
atggctggat cgcttgggag aaagtaataa cttgatggct ctgaagaatc tgtgtgactt 1380
gggcattgta gatccatata caccattatg tgacattaaa ggatcatata cagcgcaatt 1440
tgaacatacc atcctgttgc gtccaacatg taaagaagtt gtcagcagag gagatgacta 1500
ttaaacttag tccaaagcca cctcaacacc tttattttct gagctttggt ggaaaacatg 1560
```

340

```

ataccagaat taatttgcca catgttgtct gttttaacag tggacccatg taatactttt 1620
atccatgttt aaaaaagaag gaatttggac aaaggcaaac cgtctaattg aattaaccaa 1680
cgaaaaagct ttccggactt ttaaattgcta actgtttttc cccttcctgt ctaggaaaat 1740
gctataaagc tcaaatagtg taggaatgac ttatacgttt tgttttgaat acctaagaga 1800
tacttttttg atattttatat tgccatattc ttacttgaat gctttgaatg actacatcca 1860
gttctgcacc tataccctct ggtgttgctt tttaaccttc ctggaatcca ttttctaaaa 1920
aataaagaca ttttcagatc tgagagctac atctcaatgt ctgtgggtat aattctggac 1980
aggataaata gctaaactta atgtaggcaa atgcagagac atttatctga aatgtagacc 2040
tctacactga gactttttctg gcatagtggc taaaacaaga tctacacatg cataaaaagg 2100
gacaatcacc ttttcttcat aaatatacag ctttaggaat atttcaccat tctttgtagg 2160
acatagtagt ccttgtcttt ttttctcctg acattggaaa gatgtgctaa ttgaaacttg 2220
acttagtagg aacattgtgc caactcaaaa cttgtattta gtaaaaatct caatgtttag 2280
atcctttgtc cagtgggtgt gtttatcagg gaatgtattc agcttgctca gaaaaccaa 2340
agggtattaa agccacaaaa gcaaraaga aaaaamaaaa cttcccatgt ttggatcttg 2400
ttctagttag aaaaattaak ttgaaattct tgggttttt cattcatgag gcaaatgctg 2460
taataccttc ccctttgaca ggtttggatt cttaacatta ctagtgggtat ttcaggaagt 2520
gacgttacag ttactttcct tatagcggct aagtgtatta agttgaatgt aacgatggta 2580
atattaatth gtttgaactg aggccacta ctgattcttt gacaaattga attcttatat 2640
ttaaataatt ttatgggaat gttccatcat aatttctaaa tcatttatat atcaaggtag 2700
ccttaatttg tatatgtttc agtacaatga gattttattg cctctgggat gctgtttagt 2760
ttgtatthttg ttgaacgttt ttatcctagg aagagaaacc tatgacttgt gtacctagat 2820
catctgttac attaaaaagc tgctctttca gcattagagc tataaatgaa tgttaccttg 2880
tcgggaacaa tctaggttta gctgtatgag ctatgtttat tatgggtgcta atgttcagta 2940
gccacatttg actaatgtct ccattctctg tgatgctgtg gctagcagca gagctcgcca 3000
gttcatgcct ggacatactg tcagggctgg gccctccagc tagctccttt ggggttgagt 3060
ccgtatcttt ttgatgtgga agtataaagc aagtatcttg atttctaaac ccagcaattt 3120
tagaattgac ctttatgagt gaagactttt ggagctttta aagaccttg cagtcatgat 3180
ctcaaacc aa ttaggagctc caagctccct tcccaggtaa ctgttgggag caatggcatc 3240
actgtatgcc cttgtaattg ctggaaggga catgatcttg taagtaggaa agctgtaact 3300
aaaaattgta ttgtttgctt attagccatg tatctcttaa aattttgtta tgtttacaac 3360
gatgtacctt attggcaaca agttattagt ttgatgttta acaatagtgc ctttagtaaa 3420
ttatthttaca actaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 3470

```

&lt;210&gt; 479

&lt;211&gt; 637

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 479

```

acgccttggc catcgctgaa aagtctcagg agttcttggg agcagataat cgccagctgc 60
ccaatgggtg ttacacaact gcagagcagc gtccgaatgc ctacatccca gaagcagatg 120
ccactcttcc tttgccaaaa ctttatgggtg ctttgggtcc ttttaaaccc agtgaacctg 180
gagccaatat gaggcacata aggaaacctg ttataaagcc agttgaaatc tgaatatgtg 240
aacaatccca ggcctctcaa ggaaaagact tcaaccaggc ttccttgtag ccacaggtga 300
aaaatgtgag cataatactt ctaatatatt tgataagtaa ggtaaccaca attagtcagc 360
aacagagtac aacagggttt ctattttacc accaactact atacctttca tgacgttgaa 420
tgggacatag aactgtccta catthtatgt aaagtatata tttgaatygc ttatattttc 480
tttttctact ttttatattga gtacattcca gaaatttgta gtaggcaagg tgctataaaa 540
atgcactaaa aataaatctg ttctcaatga agtacggaaa aaaaaaaaaa aaaaaaaaaa 600
aaaaaaaaaa aaaaaaaaaa aaaaaaaggg cggccgcg 637

```

## 341

<210> 480  
<211> 1889  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (26)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (57)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1295)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1370)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1844)  
<223> n equals a,t,g, or c

<400> 480  
aactaagtgg atcccccggg cacatnatgt tgatactggt cgccatagcg ttgctgntgt 60  
gtctgggcga actgacgtgc cagttcatcc tgctgcatcg catcgatttc atcatcgttg 120  
tactgatcgc cagaatcgta ctgattgcgc tgggcttcac gggctttttc ttccgccgca 180  
cgctgtgagg gcagcttaat accgtaagac gccagttcac gacgagttgg cacgcggata 240  
cgtttcggtc gtggcaactg cggaccaatc cctcttttga cctgaggacg cgggtccaccg 300  
ctatattgcca gactgaagac tggcgcgga acgggttgccg cagccccgtc gccagtgctg 360  
ctttttttcac gccagatgcc agcggggaaa cagcggcagc ggcttctact ggaggtactg 420  
ctgcaacaga aggtgctttc agcgaagatt tgatcggttc tggttcttta accggttctg 480  
gaatcggttg ataccaggcc gcaagttggt cacgttcacg ggctcgcttc tcttcaactt 540  
cttcaaagta gtaaagcggc ggacgcgcgg gttttgtctc ttctacaacg gggttcagctc 600  
cacaacaggc tgctgttcaa cgggttgcs ctggttggtac aacgggytct karcggctgg 660  
ctgctgataa gtttgctcag tctggtatgt agactgtgra gcaaaagtgg attgctgctc 720  
ttcggcttgc caggcggttac ctgccaccgg ttgttctggc gcaggggcat aatacggctg 780  
ttgcgcaggc tgttcagctg caggtgcata atacggctgc tgcggctgta ctggttggtg 840  
cagcggctca ttatattgca ctgcagctgc gcatattgtg actgctgtgg gtaaccttc 900  
gggtgcaggag caataaccgg ctctcccgtt tgtggaccgc gtacaggctg ccaggctact 960  
gtaggttgcg caggtggaac atcaacagag gcaacaggcg gcgtctgagt cacaggttca 1020  
accggcgcag ccagctttgt gtcgccgtgg tagcagcagc tgctacagcg acaggttcgg 1080  
taattggcgc accgtttaat aatggatcgt attcgtcata ttctggctgc gttgcacgrt 1140  
tgccccgaaa tagacgtcgt ccgggtcggc agccacaccg cgtgcagtggt aggtaatctc 1200



342

```

ttcgtcatca tcccatccgc tttaccggag aacaacgcag cgtctgtttg ccgccccatc 1260
ggattaatga atttttccgc caaccgtttt aacgnaccta agccgccgcg aagaatacgg 1320
gcacggcgtg attcatgctg tttgcccggtg attttcatct tcatactctn cgtcgtcttc 1380
atactcatct tcatcgaccc aggtatcacc gcgacgggta cgattactgg cgaagggtgag 1440
aatgtttaaa atccagccgc cgagtttttc agcaatgtca cccatgacca accgggtgaac 1500
aacgtcaggc ccgctgcccc aacgcagagc agcgcaatag ttcccccgct actgtgtagc 1560
agtggttgta rcstagtgct tagtaarctg ccmatgacgc caccggaggc aaaataccag 1620
ataycgtcag cgttgattgc cgccagacca caggaggtaa ggatgagcgc caaaacgcc 1680
atgatgcgta gcgaaacggc aaaataatca atgkmytcgt cgctggactg atgacgccag 1740
gcaaaccac aaccgccgac aataatgacg ggaatgggtg aagccattca cgccaaaaat 1800
aaagaacagc gtatctgcc accacgcacc gggcatccca cctnaattat ggataggttc 1860
atgccaggcc gtttgcgacc agctgggggt 1889

```

&lt;210&gt; 481

&lt;211&gt; 493

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (453)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (472)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (475)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (491)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 481

```

taacgatttg tgttggtgaga ggcgcaactg cgattttctgc tgaacttggg ggcattttcta 60
cgacttttct ctcagctgag gcttttcctc cgaccctgat gctcttcaat tcggtgctcc 120
gccagcccca gctkggcgtc ctgagaaatg gatgggtcttc acaataccct cttcaatccc 180
ttctgactgg ttatcagtg agtggtaatg atgaacacac ttcttatgga gaaacaggag 240
tcccagttcc tccttttgga tgtaccttct cttctgctcc caatatggaa catgtactag 300
cwgttgccaa tgaagaaggc ttttggtcga ttgtataaca cagaatcaca aagtttcaga 360
aagaagtgct tcaaagaatg gatgggtcac tgggaatgccg tctttggacc tgggcctggg 420
ttcctgggga attaaaattg ttacagcagc agnggtcaaa cagccaattt tnggncgtaa 480
aactgggtgag ncg 493

```

&lt;210&gt; 482

&lt;211&gt; 473

343

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (399)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 482

```

ggcgggggag agggaccagg gaaggcgctcg gggggaatct cgcgaggggtt ggagtttttg 60
cgagagtttg tggaagatgg cgcctgttgt gacagggaat tttggtgagc ggccctccacc 120
taaacgactt actaggggaag ctatgcgaaa ttattttaaaa gagcgagggg atcaaacagt 180
acttattctt catgcaaaag ttgcacagaa gtcatatgga aatgaaaaaa ggtttttttg 240
cccacctcct tgtgtatatc ttatgggcag yggatggaag aaaaaaaaaa aacaaatgga 300
acgcgatggg tgttctgaac aagagtctca accgtgtgca tttattgggr taggaaatag 360
tgaccaagaa atgcagcagc taaacttggg aaggaaagna ctattgcaca gccaaacmtt 420
gtatatatct grctcagcca gcgaagactt tcatgttgtc tgtaaagtgt tct 473

```

&lt;210&gt; 483

&lt;211&gt; 851

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 483

```

ggaactcagt aacgccttga gctgggttga ttgaggatgt gtgaaaagct cacagagccc 60
gatgcctgct gctatttcac ggcaatgagc ctttttcttt ctacactgaa gattttcttc 120
ttatttaatg tgggtttattt tgggctcaga aataattgct ctggtgaaaa taatcctttg 180
tcagaaaaga aggtagctac cacatcattt tgaaaggacc atgagcaact ataagcaaag 240
ccataagaag tgggtttgatc gatataatag gggtagctct tgattttggt aacattaaga 300
taagggtgact ttttccccct gcttttagga ttaaaatcaa agatacttct atatttttat 360
cactatagat catagttatt atacaatgta gtgagtcctg catgggtact cgatgtgtaa 420
tgaaacctga aataataaga taataagaaa agcaataatt ttctaaagct gtgctgtcgg 480
tgatacagag atgataacta aattataata aaactcttca ttttgtgaat tatagaagct 540
actttttata aagccatatt tttttaggga aactaaggag tgacatagaa ctgatgaatg 600
agyaaaagta agttttgctg gatttttgta gaactctgga cgttgaggat tcattatgct 660
gtgggttaact ttaaatattt ttgaattcca aatatctgaa ttaatgagcc ttgtctttac 720
aaatatgtgc cattgtgcaa catcggtgga ttttctaaaa ataatgtaaa tgtcttctat 780
taaagtgtga gtgcaataaa atacagaaga attctcaaaa aaaaaaaaaa aaaaagatct 840
ttaattaagc g 851

```

&lt;210&gt; 484

&lt;211&gt; 1500

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1430)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

344

<221> misc feature  
 <222> (1451)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1454)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1457)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1499)  
 <223> n equals a,t,g, or c

<400> 484  
 cgcacagccg gccttttctca gcgaaagcct cctgcgaccc cgcgtgagcc cacgatcgcc 60  
 accgtctccc gttgaaaata tcttcttctc tcgtatagtg ttagcttgat gctccgttag 120  
 atactttcaa tggaaacaga tttgcactcc gtttgacagc catttttcctc caaccactcg 180  
 ggaaactcgt agtaagagca ttacatgggc cctggaatac tgattcgcct gataatttgg 240  
 aagaagtga gtttttactt catatgtggg tagctctgtt ttacagcaat cagaacaaaa 300  
 tcatacgatc ttcccgaag gttgtagaac acagcaaccc agcaaaatat gtgtctataa 360  
 atagcacgtt agaattctgt gagctccgtg aaattgagga gtcccttggt ttggaaaaat 420  
 gttctgcaga ctctctgttg gagactaacg aaatttccag ggctcatgct gctgaagtat 480  
 ccttccgtga tcctaactgc ttgcttcctt tcattaaaac accacttacc caaggcttgg 540  
 aactctgtgt acaaaatgaa cagaaaaaaa cttttgcaag agagtgtgat ccagacaccc 600  
 aagaagacca gaatttcatc tgttcttaca ataatgaggt aactggggaa gaagctaaac 660  
 aagaatcatt ggagacttct aatcttgtgc tttcgggtat tggaagtaca caaactaatg 720  
 gaccttctgt tcctagtga gaagaaattg ttcagccact ggatagcaca agagtggctt 780  
 cttacagtgg cactgttact caagccacat tcaccaggac ttacgatggg cctggcagtc 840  
 agccagtgat atgtcagagc tctgtgtacg gcacccttga aaacaaagtg gatattcttg 900  
 atgcagcagt gcaaacaaaa acaggtactt tacaggacct tatccaacat ggcagcccca 960  
 taaacaatga atgtcaccct tccttggaag gaaaggatga taatatgggg kgtgcartga 1020  
 ttaaccggga accaattact ctacaccttg aaaaaaatgc acatgtacca atacagacag 1080  
 aaggtgtaaa tactgctgat gaacctacaa cttttaagaa ggagttgatt aagcaagtat 1140  
 cacctgctgc aagccttaga catcctgtat ccacctcgga aaatgcacga acacaaggcc 1200  
 tgagggacat tccctctcta gtagttgcag gacagaaggg cactaagtac ctttgtgcct 1260  
 cgtcagtagg tggagagaca cttgataaag cagtgtgttc attacagaag gagacgcccc 1320  
 ttccagctct tctaccatct gataaaacaa tggatcatga ggcactatca ttagctaaaa 1380  
 gttctagtca tctatcacc agtgaagaar tgagatgcac tcaggatttn ctttyacaga 1440  
 ctyagartct nctnggncta tcttttagaaa ggcttcttag aacttgacac aggttgaant 1500

<210> 485  
 <211> 491  
 <212> DNA  
 <213> Homo sapiens

345

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (452)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (453)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 485

```

gactgaggag gctcggtttg tagagccccg ctcaggcaca gggaggagga gatgccaggg 60
ctcctgcctt ttgccacatc ggccctcgtgc agtgagggct ctgtgggctg gggctgctgc 120
ccctgcctac ctcctgcctg tccccagagg ctgaggakag ggggtactgt gccaccaca 180
catrattagg cctcagaccc aactctggtc ctggctccac aacagtggct gccactcact 240
ttgtccagaa ggtggcttgg ggggtggatat ctttgggttg ctggaaaagg tgtgggaagg 300
ttcaggatgg tgggagggac tgaggtcctt gaggtgaaga ggcccttggc cctgacgggt 360
ttgacccgtg cctggacctt tggagcagtg ttgtgtgaac ttgcctagaa ctctgccttc 420
tccgttgtca ataaagcctc cccctcatga cnnaaaaaaa aaaaaaaaaa aaaaaaaaaa 480
agtcgtatcg a                                     491

```

&lt;210&gt; 486

&lt;211&gt; 1317

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1310)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 486

```

gaggataggg agcctggggg caggagtgtg ggagacacag cgagactctg tctccaaaaa 60
aaaaagtgtt ttttgaaaat gttgaggttg aaatgatggg aaccaacatt ctttggattt 120
agtgggggagc ataatagcaa acacccctt ggctcgcaca tgtacaggaa tgggacccag 180
ttggggcaca gccatggact tccccgcctt ggaatgtgtg gtgcaaagtg gggccagggc 240
ccagacccaa gaggagaggg tgggtcgcag acaccccggt atgtcagcat ccccgacct 300
gccttcttggc ggcacctccc ggggtgctgtg ttgagtcagc aggcattggg tgagagcctg 360
gtatatgtgt ggaacagggg gcaggggcca agcgttcctc ctccagcctt gacttggggc 420
atgcaccccc tctcccccaa acacaaacaa gcacttctcc agtatgggtg caggacaggt 480
gtcccttcag tctcttggtt atgacctcaa gtcctacttg ggccctgcag cccagcctgt 540
gttgtaacct ctgcgtcctc aagaccacac ctggaagatt cttcttcctt ttgaaggaga 600
atcatcattg ttgctttatc acttctaaga cattttgtac ggcacggaca agttaaacag 660
aatgtgtctt cctccctggg gtctcacacg ctcccacgag aatgccacag gggccgtgcr 720
ctgggcaggg ttctctgtag aaccccaggg gcttcggccc agaccacagc gtcttgccct 780
gagcctagag caggaggtcc cgaacttctg cattcacaga ccacctccac aattgttata 840
accaaaggcc tctgtttctg ttatttctact taaatcaaca tgctattttg ttttctactca 900
cttctgactt tagcctcgtg ctgagccgtg tatccatgca gtcattgttca cgtgctagtt 960
acgtttttct tcttacacat gaaaataaat gcataagtgt tagaaaaaaa aaaaaaaaaa 1020
atattattaac ggcgcaactt atcccttagt agggtaattt agctgcactg gcgcgtttca 1080
cgcggtactgg aaacttgcgt accactatgc tgagaatcct tcgcactgta atcgagagcc 1140

```

## 346

gcgatgcctg acagtgcctg atggatgcgc cttagcgtac gggtttgtgt gcggacgaat 1200  
 cactaggcct tgtccttttg aagggggctc gggagggggg gtgttccaaa aatggggccaa 1260  
 atttggcgct agttaaacac gtttgtgggg aaaagcaaag ggggttatan aagtttc 1317

<210> 487  
 <211> 944  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (932)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (942)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (944)  
 <223> n equals a,t,g, or c

<400> 487  
 tcgaccacg cgtccgccca cgcgtccgga cagaccagc ctggagctgg cccctggcct 60  
 gtgtgctgac ttcttgggggt cctcaaacca ctgtattttt ctgttgagcc tgtacttggg 120  
 gagagatcag tagcatttga ggaagtaaga gaaaagaatc atggtacctc agggtttctt 180  
 tccctttact cgctggcagc cattgtctgt gggcacctca tgtttttcca cactctactg 240  
 ggccgtggag gtaacgatca cccaggccag tctcctctgc ctgggatgcg ccctctgaga 300  
 ggaggcctag cagggcaggc tccctctggg catccctgga tgcagcctct ggacacatgc 360  
 ctcttttaaa gtgtccgggt gcagctcagg ttgagtggag gtagaaggag aaacagacat 420  
 gtttaccacg cgtttttccaa agctcctgat ctttcccaag attgtaactg aaaactgctg 480  
 tctcttgttt tgttcgtttt ggggggtggtg gtgctggctg ggccatgctt gtgaagtgat 540  
 gtgtgtctct gatttaacgg attcactgtt ttctctgcta attgagagag cgttatttac 600  
 attatttatt tgttttgaca caagtgtctt cagtgtttta tcctagctaa tggcttctta 660  
 aaggtaataa aacccttcca acgtaattgg tcagataaaa ctttttttct tgtatgctta 720  
 aataaagcaa ttagtgaagc acttctatcc aaaatgactt ttttgtcctt ttttaaaacc 780  
 aatttactgt tactggaaac tttttgtaca ataaagcaat cacgcagatt aaagaaaaaa 840  
 aaaaaaaaaa aaaaaaaaaa aagggcgggc gctctagagg atccaagctt acgtacgcgt 900  
 gcatgcgacg tcatagctct tctactacgt gnaccctaac tncn 944

<210> 488  
 <211> 1677  
 <212> DNA  
 <213> Homo sapiens

<400> 488  
 gaattcggca cgaggtttgc agagtgtctc ccgcccetra tctcattgga gccatggact 60  
 ggaagacact ccaggcccta ctgagcgggt tgaacaagta ctccacagcg ttcgggcgca 120  
 tctggctgtc cgtggtgttc gtcttccggg tgctggtata cgtggtggct gcagagcgcg 180

347

```

tgtgggggga tgagcagaag gactttgact gcaacaccaa gcagcccggc tgcaccaacg 240
tctgctacga caactacttc cccatctcca acatccgcct ctgggccctg cagctcatct 300
tcgtcacatg cccctcgctg ctgggtcatcc tgcacgtggc ctaccgtgag gagcgggagc 360
gccggcaccg ccagaaacac ggggaccagt gcgccaagct gtacgacaac gcaggcaasa 420
agcacggagg cctgtggtgg acctacctgt tcagcctcat cttcaagctc atcattgagt 480
tcctcttctt ctacctgctg cactctctct ggcattggctt caatatgccg cgcctggtgc 540
agtgtgccaa cgtggccccc tgccccaaca tcgtggactg ctacattgcc cgacctaccg 600
agaagaaaaa cttcacctac ttcatggtgg gcgcctccgc cgtctgcatc gtactcacca 660
tctgtgagct ctgctacctc atctgccaca gggtcctgcg aggcctgcac aaggacaagc 720
ctcgaggggg ttgcagcccc tcgtcctccg ccagccgagc ttccacctgc cgtgccacc 780
acaagctggt ggaggctggg gaggtggatc cagaccagc caataacaag ctgcaggctt 840
cagcacccaa cctgaccsc atctgaccac agggcagggg tggggcaaca tgcgggctgc 900
caatgggaca tgcagggcrg tgtggcaggt ggagaggtcc tacaggggct gagtgaaccc 960
actctgagtt cactaagtta tgcaactttc gttttggcag atattttttg acactgggaa 1020
ctgggctgtc tagccgggta taggttaacc acaggccag tgccagccct caaaggacat 1080
agactttgaa acaagcgaat taactatcta cgctgcctgc aaggggccac ttagggcact 1140
gctagcaggg cttcaaccag gaagggatca acccaggaag ggatgatcag gagaggcttc 1200
cctgaggaca taatgtgtaa gagaggtgag aagtgtccc aagcagacac aacagcagca 1260
cagaggtctg gaggccacac aaaaagtgat gctcgccctg ggctagcctc agcagacctc 1320
aggcatctct actccctcca gaggagccgc ccagattcct gcagtggaga ggaggctctc 1380
cagcagcagc aggtctggag ggctgagaat gaacctgact agagsttctg gagataccca 1440
gagggtcccc aggtcatcac ttggctcagt ggaagccctc tttcccaaaa tcctactccc 1500
tcagcctcag gcagtgggtgc tcccatcttc ctccccacaa ctgtgctcag gctggtgcca 1560
gcctttcaga ccctgctccc agggacttgg gtggatgcgc tgatagaaca tcctcaagac 1620
agtttccttg aaatcaataa atactgtgtt ttataaaaaa aaaaaaaaaa aaaaaaa 1677

```

&lt;210&gt; 489

&lt;211&gt; 1640

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (680)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (695)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 489

```

tttagatctc aggtctaagg cttcctttcc ctccctctcc cagctagttt gtgctaatta 60
agagaccttt tatactgttt tattgcctgt ttgaagaaat aatttttatc acgtttttgt 120
aagatatcta taattttaaa tgtttataaa ttgtttaatt tattagcatc ttaatgtacc 180
ccatttttat atactgaatg tggccttttg agtgaaatag gaagcttcat ggtgttgagg 240
ccacctttgt acagttgttt aaagtttccc attgtcacgg aaaacattgg ytgcaaagcc 300
cctcaaagcc ctcaagtgcc ttctgtgagt ttaaatgtgc tgggtgccctc cagaaaagcc 360
tcggcctcag ctccgtttcc gcctgttccc tccccagga taatgaatgg ttactgcact 420
gtaaagaccg tgggtctctt tcaactaaata ggagattcga gtttcccagt ttacatgaat 480
gaagtctgaa ttttaagacgg tgatgaaact gaggttcagt actctcggga ctcgaggaaa 540

```

348

```

ttattcctga gacatggagt aattccttaca aatttaaact attgtacaga tccacatata 600
tggtgttaag tacctaattgt ttgtctgaac ttttaaaagt taatttccaa aatgtatagg 660
gattcatgat aattaaaccn tttttattgc tcatnttttt agtagaagaa tatcacttat 720
tttttagactt gtaaaatgta tgractgggtg agcggacatc tgtaagaga gtcactagtc 780
agaatgttaa aggagtgcac gcaggatgcc ccaaagtgcg tgaactcttg ttactcctgt 840
atgtagtagt gtaagcatgt gacttttaac accatttggg ttgaaactaa tgtagagatg 900
cctgattcca aacagggtgtg gagaatattg aacggctcag aagccgcgct ccttacttaa 960
cacaattccg aatctccctc atccatgatg cgtccattgg atcactcgct ggtggtcact 1020
gtgtggcagt tactagggga attctgcctc tgactgttct ttttcttttg gtcttttaaac 1080
accctgtcgt gggatgtgct cactgatttg tggctatgtt gaaggatca cttgtcttga 1140
gggttttcaa tatctcagga tcatgctggg ggcaaaagga ctccaygcct ctgtggaatc 1200
atgtccacag ggggacctgc ctcccgatg gtcccacctt tcttcaagg tctgtcatat 1260
gagtcctccc cttttacaac acttattatg gtatttttca agttattctt cttagatttg 1320
cagtacctac tgaaatttgt gtttttatag ttgaagttag gaaaatgcta tttgatttgt 1380
awttagatat ttaagtcact tgtccaatga tgtgtatgtc taagcctcat gtaccgattt 1440
gaagtcagac ttaaaaaatgt atttacagat tcaactgaga ctttttaatc ggttcttcaa 1500
atatttcatg tttacattaa aaatttccag agaagcataa aagtattcac tttcctgcct 1560
tgtcatttct gaaaagattt tggggagata ttttattgca tattaattaa taaattgttc 1620
tactaggaaa aaaaaaaaaa 1640

```

&lt;210&gt; 490

&lt;211&gt; 637

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 490

```

atttcggcac agtaccgctg ggaccagcct tatctcagac ctgcttacct gcatgatgcc 60
tttttggggg ctgggggattg artcttgcctg ctctgccag ccctgttcta ttctgcargg 120
tccctgtgtt ggaattctcc ctggggaacc tactttctgc tcagtgargc tccggccaga 180
aacctggagt ccttatcctc cctctgttaa gtgttttagg gtctggcttt tgcaggcacc 240
ctctgacctc agcagagctc ctgggcctgc tgctgcaca ccacatcgcc tacctacaat 300
gccaaagcct cactgtcacc ctttctgcct tggtttcctt agctgagcca cgctgcccac 360
gcagcagagg gcagaaggct tgcacttggg ccaaagggcc taagggtccac tggacagtgtg 420
ggaaaacacc tgaccaccat ttaaggactc taagccagaa tggaaaattc accaggactc 480
cattcttaag cctatgctag tcccctagag agaggcattg tactgatata taaatattat 540
ataatatata catgagacat actgacagaa tctgtaagct aataaaatgt aagaaaaggt 600
taaaaaaaga ataggtaaat tgacaagaag taaaaaa 637

```

&lt;210&gt; 491

&lt;211&gt; 464

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (338)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (397)

349

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (438)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 491

```
gtatttacaa agagaagggg cpactcgtgt gtgagcagca ccgagggaca gaggtacctt 60
gcctgcttgt gtcccctcca agtccttctg atattttcct ttccagctgt tgcctagtgt 120
cctggattta aggagaatca actctctgga taaacgtggt aaatatggcc catagtccca 180
tctttttaca ggcatttttt acacctggag cagccagagg acgcatgcat ggctcttcgg 240
aaggtaattt agggatcacc catgtaagtt tcctaaggat ttctttaaca tggttcttct 300
gattcagtcc ggccaattaa atctgaaatc caccctnga aagccatctg gtgtggataa 360
caaggcccac aaattgaggc agttcagctt tttgtgncct tttaggcytg ggacaaccac 420
gggatcttaa aggggggngg ggaactagga ggtttttgag ttcc 464
```

&lt;210&gt; 492

&lt;211&gt; 777

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 492

```
tctgtgtcac tcttgtatgt cctcatatct ttcatactc ttgtgtagtc tctagaagca 60
gaacacctaa gtectgggtc tggataatga aaccctcagt ctctggggcc tctgaaaata 120
aggaagcatt ggagctattg ccatgttgag tartgggctt cctagaacta ttgtcatcta 180
tcctgccagt gttttatggt gtagctgttt ttctttgaca ggtgagttcc agctatgttg 240
ttagtcatga tcctgccatt attttctgtg ttctgtagga tgtctccagg ctacttaaac 300
atattttatg agtttgcaat aaaattgttg aatcttgtat gatcaagtca ctctctgtct 360
cagaaatcca cagtgaactc ttagtaagcc cctacattat atgcatactt gtttttttct 420
taactttact ccactttcta cctaacaggg acctcaactt aagtctcttc agttcttcaa 480
ggcctggcct tgttcctgat tcctcaaaaa atcttgactc taaggcctat tttattgtct 540
gtctctgaat ccctataaag cttcaagtct gtatgacatt cttaacgcca aattatata 600
tgtctgttac tgttcctagc tgggtacatgt atattagtct tgtctccctc atgagaatgt 660
aagctcctta agggcagggg ccatgtctta atttttgtat ccaccacagg cctagcacag 720
tgcttggcac atgggtgctg aataaatacc tttgtttatt gatcarmaaa aaaaaaa 777
```

&lt;210&gt; 493

&lt;211&gt; 564

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (510)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (522)

&lt;223&gt; n equals a,t,g, or c



350

&lt;400&gt; 493

```

tccaagctcg aattcacctc actaaagggg acaaaagctg gagctccacc gcggtggcgg 60
ccgctctaga actagtggat cccccgggct gcaggaattc ggcacgagat taataaaaca 120
gaggagtaca ttttaccctt gcaattccag tcaatactgt ggtgtcattt cagccaacat 180
accaacattc agtcaaattc caaagccaaa tggataattt cagatggaat ggagttagac 240
aggaactggc ttccctttct cctgttacta tgaggacaac ccacacctgc tcagtggcct 300
aaaatatttt aaatatgttc atgacaatta tgctgagaat gccaggataa crctgatgga 360
acccatgact tcaccaggat tgtgggtctac atttacaggc ctagtactag aactagaccg 420
gcttagagag tgggagatat ccctctgttg tccatcgaaa agataaaaaat acaggctttc 480
agccggtgtg cagtgggtgca tgcctttggn ccccgctac tnaagggggc tgagaatggg 540
ggaatccttt ttgagcccca gaaa 564

```

&lt;210&gt; 494

&lt;211&gt; 773

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (283)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (734)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (762)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (768)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 494

```

ttagagctca atgctttgtc ctctgtcatc cttctactgc atccctttct tcgtttcctc 60
acttcaactt tttagtaaac ttgtctgagg cattagcttt actcttacgc attttgctcc 120
cctgcctttt tgttataaat attatcatgg catgaaacaa aaagcctgtt atctgccttt 180
ccatgatcac tttgtgaca ctgtttcagc cacaagtaaa cctagcaact ctatgaatag 240
caggacagac ttgaatgtgg tgtgtgtgca aggaagtat ttnaactttc ttaactctaa 300
atgccaccag aaaacattct gctccctgtt acttcttttt tttttttttt aaattacttt 360
gttttgcggt aaggagtggg ggaatgtgtg gtggcaggga agtaatgtaa gttgctttat 420
aactcactgt ctaacaaagt tttgaaaatt tgtctgatat gtaattaggt actttagggt 480
tattaggttt tcataaaaaat tctggttagg gctcttgccct gctcccaatg aaagcctttc 540
cacagggcaa atataaaaga gagagtagag ggaawycccc tgaggtttaa atamgtcaaa 600
ccagtaagta atagtgtctaa gtttgtcagt gcctctcttt cttactgtac ttaacatcta 660
aaggggcacc tcatttattt tcaggctaatt tatgttcttt atgggggtgac tgtccaatca 720

```

## 351

ggggaggggt gttnacggtc cagtggggag ataccctttt cntaattnat agc 773

<210> 495  
 <211> 723  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (597)  
 <223> n equals a,t,g, or c

<400> 495  
 gtcctagtga agaggaaggc ctgtgtagca gaaaggcttt gggcctgaga ggtaaggcc 60  
 acagctgttg acacctgttt tggtcctgcg accctttact ggtctccgct ggctttgaat 120  
 cttcctctgg gctctactct ggagaacata agggctgctg tggttgagtc tggctagcac 180  
 tgtctgtggt tggcagtgtg tacacccttc cgttcagttc cttgggggta tttttcagaa 240  
 atccaaaggc aacccttcgt gcagtgtcct cttttttaag tacagttgat tacccttgcc 300  
 tgctgggggg cctagscatg ggccagagat ggaggagccc cagtggctga caggscagcc 360  
 tcactcaggc acgtacctgc tgaccagtca gccactgcca acccatggcc cagccactgt 420  
 gtgcattagc agggagggtt gtaggscatg gaggaaatga ggagacacca cctagtggag 480  
 acattggggc cctgytgggg ggatggtgtc tatagstggy tctgctggct ccctcaggcc 540  
 ctgcttacca agctctggag gaggggagtg ctgcattact gagcaccttc cttgttnttt 600  
 cctcatagga cactgatgtt actgtcactt tagttatgct aaagtggagg tttcagcctc 660  
 cagaaggaca gcagagcctt ctagggtcac cttagaataa ggtttttagct aggctggggg 720  
 ttt 723

<210> 496  
 <211> 445  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (366)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (388)  
 <223> n equals a,t,g, or c

<400> 496  
 ggtctctaaa tgatgaaaaa agaaatcatt ctcagaagga gaaaagattg tatgggtttg 60  
 gcctctccat atcttagcca attatgttgc tattttcatg gcttcagtta tcaaaacatt 120  
 actgctgggt agcagggctg tagttctcga cagccttcac agtgcacatc tcttgaagtc 180  
 acatgagagc tctttggaaa gttgaaatta gaggcattct atatttactg ggkctgaatt 240  
 tgkccctgac tactmatgga gtagaaaatg acccattttg cctacattga gtaggctgaa 300  
 ggaatttgca wttctccact cttgtgaggg ttacacctaa tttattttaa atagaacaag 360  
 ttcttnatgc ttaggggttaa gcctttanaa atggaaaatc tcgatattca tctctctatc 420  
 ttgataaaag tcagccaggc cattt 445

352

<210> 497  
 <211> 617  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (525)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (603)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (617)  
 <223> n equals a,t,g, or c

<400> 497  
 gcagggacag cacatgggaa agcccatgg ctttgtgatc catctgggga tgtgatccat 60  
 ttgggtaagg acttgggttt cagggcatga gttggcttcc ttgcaggatg caggtcctta 120  
 ggtgggtggc ctctgtctcc agctgtaggg ccctgccagg aagcctctat atgagcctac 180  
 ctccctcctg caggaccaga gaggggttgt tatgaacagc ccaggggatt ggttgacta 240  
 agcttgtctt gaagcttttg ctggggagtc caggtgccc a tgtctctcac ctgctcccca 300  
 tacacatctc tgcacacctg gctgaggcat tcccagacct aacctcagat aatgtgcatg 360  
 tgatgaacac tcccaagtgg ctaggcctct tgcacctgag caggtggatt ctgccccagc 420  
 actggggctt tctctgggct gtccatcatg ggtatatctc tggattccag gattgctagt 480  
 tagcacctca catttgaggg tctgtgctat tcartctara atcanaattg gatgaaaaat 540  
 caactttgac accacctttg gggtggtgts attggcttwa cacctgkaat cttaacactt 600  
 tangaagctt aagccan 617

<210> 498  
 <211> 1189  
 <212> DNA  
 <213> Homo sapiens

<400> 498  
 actactagag aaaaaccaac tggcagtttg ctaagcatat ctactggtgt tgtttctgcy 60  
 ccctcttttg gctaattgat gtaattatac tggctctaaa gatttactgc cccataagta 120  
 aatagtatag ccacattctg aacatatcaa agtacaaac ttaggaggag tgtatgtaca 180  
 aaaatgtaaa attttatgaa aatgaacatg tttttatgat gttatttcta gttcataaga 240  
 atgtgatgac tgctttgctt catttatgta cgttcccatt atattcttgc tgtcaatcaa 300  
 tcacaaattt atatcagatt aggataaact aagccatttt atgtatttta ttttaaacct 360  
 tattttggca gagtaattcc ttagaattgg aaaagctggt actttgaaat taccaattta 420  
 ttacaaaaca tagaaatgta ttgkagctac aaagacaacc aagcattttc tgtgttttaa 480  
 tgaatatcta aaaaactaca tttagtttat tttactcagt tttgaaatga tttttttact 540  
 ggctctattg ccttaaaata actaagagat taatgattct ttgtataatt ttccctttct 600  
 ttgttctttt tttaccattt cgcagagtta tatctatagt tttagtaaca atttcttatg 660

353

```

tattctggat aactgaaaac aactaaaggt gttgggcrtt agaaaataat tgtgagcagt 720
aagattactg atgtaatatg tatgttggac tgaagtattt ctttataaac attctatttg 780
attttaagca aaatgtatgt taaagcatgt ttttacatca gtaaagtcac ttgtcgacct 840
tctggaaatg aaaggttttt acctagatac tgtaagttac acctccttaa caatcatatt 900
tgtcattggt gttttctgca aacaaaaatg tttatgggct tcatgtaggc ttaagattgt 960
aggcaaaaat ggactgagtt caggaccctt caagcagtag gcattcagtt acagagcagt 1020
tggtagcttg taaccagac ttacagttta aaaatatcaa gttagctgat gtttcattat 1080
aataaaaata ctattttgct taagagttgt attacaaata tttgtgctta acattagaaa 1140
tagctgtttt aaattgtagt taacatatta actttttcag aaaaaaaaaa 1189

```

&lt;210&gt; 499

&lt;211&gt; 396

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 499

```

attaaatcaa atgatattga catattatga gggagaagaa gtcaatgctg gaaggattgg 60
gctaacgcta gtagtagctg gaatgggtgg ctctattctt tgtggcttat ggctggatta 120
tactaaaaca tacaacttct tcatgactgg ttacctcctt ttgggttttg aatttgctgt 180
tgaaatcact taccctgaat ctgaaggtag ttcatctggt cttcttaatg cttctgcaca 240
gatatttgga attytgttca cattggctca aggaaagctc acatcakact atggctcctaa 300
ggcaggggaa atttwtctct gtgtctggat gtttatasgc atcatattaa cagcattaat 360
caagtctgat ctgcgagaca caacataaat atagga 396

```

&lt;210&gt; 500

&lt;211&gt; 1309

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (253)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 500

```

aaaatgtgcc agttccactt ggtaataacg ttgggaaaat gcaggtttat gaatgatgtg 60
gactttttaga ggatcaaate aataaattgg attttttatt ttttgagggc agctgcmtca 120
ctgtttttaa taaagaatct tacataagaa tgttgacaac attcacagta agccattgsa 180
gaaaattgat ctgcatgtcc tagaccaatg attacaaggt gtctgtgggt ctgtgggtta 240
ggggggccag ccnatcattc cttttccctt tggcactcat gagagagatg ccaagttcag 300
tgtggatttt tcttggtgct ctatggagaa atggagtctg tgtgcttact gaagagtccc 360
aaaaascaga gaccattttc atttaytgcc atcataaata ttctccacca ttcaagatgc 420
ctgtgtacac ggctatttgg gaaactwaag tgttgaggga ggcaggggct gaagggtgtca 480
aaacctctc agtaggataa cccctttctc ccccttggac catctgccat ctttcatgag 540
tgtttcccat ggtgtttttg catccagagt tgacarcaac tcaattttgc cttgaattta 600
ctcagtctta taaattaaaa atgtgcattt tatataaaga tgcattttat ataaaaatgc 660
acacctttta tctctatatg gcagcatata catatatata tataaaatgc acacttttaa 720
tctctatatg gcagcatttt tgaggcttta tatctgcccg tgtacctca actgcctcyt 780
ttttgcagag aacgatcccc acaggaactg gtctaagaac actgtctgca catgattgat 840
gcttaaaatc caatatacca ccacatatca aaggktggga ttttcagagt ctttcttgat 900
ttctgagctg aaaccttaac aaatagggaa tttggcaggg aagacacctg ggtttttaat 960

```

## 354

```

tcagaaccct atttatatac tgttaaaatt tgaggacta tagtttatat aaaagtcgga 1020
tgtaaagata ttatatttca gtactaggag cttctttgca gtcattaaca tgacaaatta 1080
agtaataaat ataaaagtga ttgtccataa attatcattg aattttttgt ttattttgta 1140
gtgttctgta tttatctgca ctttgtgtat atatacacac atacatatgc caacatgtaa 1200
ataacctcat gtttattcct aatctaaatt gccmcaatat ttttaatgta tggttacact 1260
gtgttttaaa ttacttttaa aataaacttt gtaagcagaa aaaaaaaaaa 1309

```

<210> 501

<211> 944

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (16)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (17)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (882)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (892)

<223> n equals a,t,g, or c

<400> 501

```

aattcggcan nagggnncaa agcagttaga gttcagaggc cagcggctca gggccactcc 60
ctccctagcc ttcacagca gagcaccctc catccctctg cattgctctt ctgtgaaagc 120
aaatactaaa ggatgccatc ctctggaatc ctaatggcag gcaaagggag agaggaaggg 180
tgacggcttc tggcacttag aaaacaaaaa gaacaaaaaa agagaaaccc ccaagcctgg 240
aacgcagaga ggtctttact gctgggatcc acggaaaaca tgtctgtcct agccaagatc 300
atatgaagag tttggcacgg aggctgagaa tgacctggca tagatggttt gccagttagg 360
atgtctcaat ttgagccttt gcttttgggtg gataactcag ctccctcttt gtaacctgga 420
aagttggttg cctttatcat cctgctgggt ttatccatgg actgaacacc caacagcagt 480

```

355

```

gcactatgst ttctatggca tctttcattc tcattttata ttgtgctata aaaaggattg 540
tttctccata tatatatatt atattgtgtat atataataa tatatatgtr tatatatatt 600
atatatatat attatatata taatatatat ataaaatata tatatatatg ctctctctct 660
tcagcctctt tgtcacaggg aaraagtgtg ggargttgcc ttgggcctgc ctctctctta 720
acctctctct cccactggg taccctcagc ccctatatatt taattcttga tcatgtarga 780
aattgttttt gggtaaagtgt tgatattatt gttattatca ttattaatta aataaagggg 840
aaaagggaat ttttgtttta aatgaggaaa tgtttaacca gnttctgttc tnttttggat 900
tgtggacttg gcaccttttg ttccaaggta tttcctttgg ggcc 944

```

&lt;210&gt; 502

&lt;211&gt; 664

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (106)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (148)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (628)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (631)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 502

```

ggcagaggtc agtagggatt taagataggg agaaaatgta gctcaggga aatgtgtgca 60
gtacaaaaga ccataaatt tttcagaaag cagcttggcc ctgtgnaagt tgaccagatt 120
gaaagtccca gaatcctggg ttccagtnca ctcatgaatg gcttttgggt aattcttctt 180
gtgcttcaat tcttctctct gtgtgaaatg ggtaacacct tatctgcctc cctgagatgt 240
catggaaata agcaaaatta ggtcttaaaa ctacttggaa acctaaattg tgaaaattat 300
ctttatctct gttgtttctt agttaccagt ttaccagaag taacttaaca ctaggattct 360
ctgcyagtac taaaattaga ctctaccact ctgggctttc cttttctccc tcttgctttt 420
gttttcgggg cgtggaggag acatctgtgc tgctggagtt aataataaac taaagactaa 480
agaataactt ctcccactag aaaatactat tttcatccta cccacctgat caggctttaa 540
aagaaggagc ccaaatctgc catggatttt gattatttga ttcactttkg gaaatgtgcc 600
tgaraaarcc tagggaatga gagaagtngg nataaatggg aatcttaaat ggtatagaaa 660
ccaa 664

```

&lt;210&gt; 503

&lt;211&gt; 602

&lt;212&gt; DNA

356

&lt;213&gt; Homo sapiens

&lt;400&gt; 503

```
ggtttttcgg ggggtggccc aagccagcct cgctctcggk gggggccatg gtgaggctgg 60
agcctgagga ccaagtgtgg gtgcagggtg gtgtgggtga ctacattggc atctatgcca 120
gcatcaagac agacagcacc ttctccggat ttctggtgta ctccgactgg cacagctccc 180
cagtctttgc ttagtgccca ctgcaaagtg agctcatgct ctactccta gaaggagggg 240
gtgaggctga caaccagggt atccaggagg gctggccccc ctggaatatt gtgaatgact 300
agggaggtgg ggtagagcac tctccgtcct gctgctggca aggaatggga acagtggctg 360
tctgcgatca ggtctggcag catggggcag tggctggatt tctgcccaag accagaggag 420
tgtgtgtgtc tggcaagtgt aagtcctcca gttgtctctg tccaggagcc cacggtgggg 480
tgctctcttc ctggctcctc gcttctcttg atctctccca cccctcctg ctctggggc 540
cggccctttt ctcaagatc actcaataaa cctaagaacc ctcaaaaaaa aaaaaaaag 600
gg 602
```

&lt;210&gt; 504

&lt;211&gt; 547

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (475)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (523)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (541)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 504

```
tcatgactga aaaggagctt tggaaatcac tgcataaggc ttgatttatt tgcacaactt 60
tcttttaggt tgcagctaga acaaacctgt gcgctttgaa atgttacctt ctgctctctg 120
ttcccaagta cagagaaata atgttgcaaa tctcacttct gctgaacatt atgcttcctg 180
atgcatttag cagacactaa acatttgtca tactctaaac aaagttacaa aggactagaa 240
gaattcttgt tctgtattta gaaaccact cacattactt gatatttggg tatttaagtc 300
atgaaaggta tttcttctag gaagcagtga ttctaaagtg tatgcttaac cagtcagttg 360
agtgtctact cttgtgtgtt cacaagtgtg ccaargtttt kggtaaatta agaatattat 420
ttcaaataaa ttaattcatc cccataggag ccagtttaca gataatccgt tctcntttct 480
ggcaatcata cacaatgaac tcatttccga ataaatataa tanttttctt tatttccacc 540
ntggtcc 547
```

&lt;210&gt; 505

&lt;211&gt; 2083

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

357

&lt;400&gt; 505

```

cgtccgattt actattctta aattataggc agctgtttgg ggaagaagat gctgatcaag 60
aagtatctcc tgacagagct gaccctgaag ctgcctggga accaacggaa gccgaagcca 120
gagctagagc atctaataag gatggtgaca ttaaactgat ttctactaag gaatgggcta 180
aatcaactgg atatgatcca gttaaacttt ttaccaagct ttttaaagat gacatcaggt 240
atctgttgac aatggacaaa ctatggcgga aaaggaaacc tccagttccg ttggactggg 300
ctgaagtaca aagtcaagga gaagaaacga atgcatcaga tcaacagaat gaacccaggt 360
taggcctgaa agaccagcag gttctagatg taaagagcta tgcacgtctt ttttcaaaga 420
gcatcgagac tttgagagtt catttagcag aaaaggggga tggagctgag ctcatatggg 480
ataaggatga cccatctgca atggattttg tcacctctgc tgcaaaccctc aggatgcata 540
ttttcagtat gaatatgaag agtagatttg atatcaaacc aatggcaggg aacattatct 600
ctgctattgc tactactaat gcagtaattg ctgggttgat agtattggaa ggattgaaga 660
ttttatcagg aaaaatagac cagtgcagaa caattttttt gaataaacia ccaaacccaa 720
gaaagaagct tcttgtgcct tgtgactgg atcctccaa cccaattgt tatgtatgtg 780
ccagcaagcc agaggtgact gtgcggctga atgtccataa agtgactgtt ctcaccttac 840
aagacaagat agtgaaagaa aaatttgcta tggtagcacc agatgtcaa attgaagatg 900
ggaaaggaac aatcctaata tcttccgaag agggagagac ggaagctaata aatcacaaga 960
agttgtcaga atttgaatt agaaatggca gccggcttca agcagatgac ttcctccagg 1020
actatacttt attgatcaac atccttcata gtgaagacct aggaaggac gttgaatttg 1080
aagttgttgg tgatgccccg gaaaaagtgg ggcccaaaca agctgaagat gctgccaaaa 1140
gcataaccaa tggcagtgat gatggagctc agccctccac ctccacagct caagagcaag 1200
atgacgttct catagttgat tcggatgaag aagattcttc aaataatgcc gacgtcagtg 1260
aagaagagag aagccgcaag aggaatttag atgagaaaga gaatctcagt gcaaagaggt 1320
cacgtataga acagaaggaa gagcttgatg atgtcatagc attagattga acagaaatgc 1380
ctctaaacag aaccctctta ctatttagtt tatctgggca gaaccagatt gttatgtcct 1440
ttgttccaaa gggaaaaaat tgacagcagt gacttgaaaa tgattctgct ccctttgaaa 1500
gcattcatct tgctagaact gttagacaca ttgcagtatg ctgtattgaa agtaggaata 1560
tagttttaaa aaccctttga acaaagtgtg tgcataacca gtcattgagat aaaacaacac 1620
aatgcatgtt gcctttttta tgtaaatacc cttaggtatc attaatagtt tcaaaatatt 1680
gtggtttagt aaagttgata cctgggtata aatattatgc ctttattttt ggctagaaga 1740
agaattatct ttagcctaga tctaaccatt ttcatactct taactgattg aaacagattc 1800
aaagaagtat cgagtgtctat gcattgaaac ttgtttttta atgttagatg gcactatgta 1860
tattaatgta aaacaatgtt aatttactca agttttcagt ttgtaccgcc tggatgtctt 1920
gtgtaagaag ccaatttttg tgtattgtta cagtttcagg ttatttataat tcgatgtttt 1980
gtaaaactca aataacgact atacttatgg accaaataaa tggcatctgc attcttgtta 2040
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 2083

```

&lt;210&gt; 506

&lt;211&gt; 1234

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (118)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 506

```

agcctccctc tccccatgg aacttacaat caagaagcat cttccaattt catgtacact 60
aaacctaggt ggccacaagc ttcatttggg ccatgaactc ctttgaaacc ctcataanaa 120

```



358

```

ctgtcctact atctccctgg taaatcgac atacacagag ttttgccttt caggacatat 180
ggccttataa gattttgact actagtgacc aaaatgttga tgtttttcaa aaattacaca 240
gaattgttaa gatggaatag ttttattcag caaacaaaaa acttgctaata tcagagtatc 300
ctctagtcca cgtaatgtgg tttagactac atttgcaaaa ttagggcctt gacgctgaac 360
aaaataaaaat ccagaggaag aactacagta tccaatcaaa aaggaagtac tagcaaata 420
accagaataa aagactttat tgtattccat acattcacag gtcacttcca gatttagtaa 480
caacactgca atgctatgat gctgtgcggt cathtagctt aaaccacagt gtaagttggt 540
agctctctcc tgctctcttg gcctctagat gtatcacaat acaattccta actgtggcct 600
ggcaaccaat gcttattttca ttggattatt ttctgactgg gacatgagtt catcgcatct 660
tcccagaatt ttaaagtacc ttcccttaca ttataagaga tgaccaaaca ctctagtgtg 720
arggctgctt cacacactgt tcttatctat catgattgct cttccttaca tacacgtccc 780
gtacagatca gctacacacg gcatgggcct gaaaccacag cttttgtttc tttggccaga 840
atgcacccct cacttgagt gccgcctta gaaacacagg tacttggttc tcacaggggtg 900
tgcatgggtt acacaagttc atctgcccc cggtaaaagc tcttcaaac ctttgcata 960
cttgtgggga gcaggggtcac aatttgttgc atgtgacctg cctcagcctc aaaagataag 1020
agatcatgag gctccaccgc ccccggttc aggaaacttg atccacatcg ctagggtctc 1080
gcctgttagg ttatggatgc tcacctgact ctctgaagca gagggaggct gacacagatt 1140
agctttttatt gaaattatta aagtgaact ttgtgttttc actctatcag gcactgaaaa 1200
gcaagaagct ttttaatttt tcttttctat aatg 1234

```

&lt;210&gt; 507

&lt;211&gt; 646

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (619)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 507

```

gatacaggcg tgagccactg tgccsggcct tcttctttca agttatatag aatggagcat 60
gggggtggca gtggctaggg acatttcctg gggacactct cccctaacc cccagaagga 120
cttcacaaaa acctgtggat aatggaagg atgttacggg acaaacgtat atttatgtgt 180
gtgtgtgtgt atgtgtgtgc gcgcgcgct gtgcacatag gcgtgatgtc tgtgaccctc 240
ctctcctcgt cacatttccc ccagaatgaa tgctgtcctg tctgctcatg tttgtgttga 300
agetgccaaa gtcggggagc tctggctcctg cccagacccc tttggaattg ctggcccatc 360
ctcccactgg agagctgggg tgcagctcac cttggggaag gaaacctcat gcctcagagt 420
aatttcttgt gaatgcaaag cctgggggag cgggtccttg gggggcaagg agccagtcag 480
gggcttgttt cccctcatag agctccccag acgtgcctcc gcaatgcctg aaaccacagc 540
ctaggctaata aaacggttca atttctgtta aaaaaaaaaa aaaaaaaact cgaggggggc 600
cgtacccawt sgccctttng tgggtggttt taaaattcat tgggcc 646

```

&lt;210&gt; 508

&lt;211&gt; 2257

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (838)

359

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 508

```

ggatgattag gctgtgtgtg cgkgtgagaa tgatcacatg tggcgtcatg ctttgtacag 60
agcctcagac cactgggcct ygtccagtga gagtcctctc tggcgacatc acacgcggag 120
agccaggggc cacccttagat ctcagatctc tcagagcaat acttttctga actgccactg 180
tgcctgggtg gttggggttg gtgtcatgct tctgactaga gtagatcgcg catgtccacc 240
agtgatacgt tgagtcctta cagttcccc catggagtcc cataagcagc tccatcgaga 300
tctgtcagca agttgcagga cccacaatg ttctgacatg ttaagacccc cttacatgac 360
gagtagagag gcagctgagg ccacaaccgt gtcttctctc tgaatggagc taactcggaa 420
cccccgttt tctcttctt tctgcccacc actgaacatt gccttttaga taactcagt 480
tttcttctag atgtcatagc aatagacttt cactttcatg aagtttgggt acgatttggg 540
ttctcgctta agtacakata tttatcaata tttttataag gcaaagttca yttaaaaaat 600
ctttccaagt agcagtgtgc ctaagatggc aaaatactaa aaactgggtg ttcctgctcc 660
tgttgtgtgt cacttttcaa gccgattgaa atattttctgg styttagggc attacttttt 720
aactatctcc tttaaaaacg atgttctgta ggttttagtgt ctttgttcat ttccaaaaga 780
gtccagacaa ctgtgtctgc ccctgcagag gctgtttgtc caaaggcagc atgccgcntt 840
ccaccggaac gcagacagca ggggagcggg attctaaagc agcgacttaa aatgaggaat 900
cccccaattgc actaaatggt ttcaggattg actaatcatt gtcttaacat taactcagat 960
tttcgatgtg taaagagctg tgtgacttgg cgtctgagag atccctctgc tttgctttgc 1020
ttcagagtcc tcgcacccgc atcctcagaa ctgtggggca tgggtgggctc taacgagcac 1080
tccccttctg ttttcttca ttacttttga cctccttaag acttcagaga gaatgtccgt 1140
caagttcttt tctccatcaa gttctttaag ttccttgaaa ggaagggact gtgcaaacac 1200
aaagcaatat tcttttgtat ctgcaaatgc gtcmtgtggac ataccaattg gtatcaaata 1260
gaataaaatc aaatataaat gtttgagtct taggttaaaa aggaagggtta tttgtatagt 1320
ttatagataa tgaaggaaaa atttcttttt cattgcagga aatcttgttt actggaagat 1380
agagtcactc ttttcatata agacaaatag tgctttaatg ccaacttctt tttatctcaa 1440
catttcagga tcatgctagg cacactgccc ccttgaatag acattatatg cacagttgca 1500
agtcagccaa tgtttttatt cagaagtatt tccccccatt atagtgcctg cctatcagag 1560
atacaaaaag catccaacac actaccgtaa taggcttctt tggggatgag aaatttgagt 1620
ctcaacaact cagagtttga gatgtcagct tttttggtaa acgtaggtgt tagaggtata 1680
ttttgctttc ctacaacaat tgttggccct tgatttcaag catgttgctt cataggaagc 1740
accagagtgc catctgctgc atttcaagag attgtaaatg tcatctcagc tggctcagtt 1800
atatctctaa tgtcccggtt agcagcacct cctctaaaaa atatgtttac ttcgctgttt 1860
cacttgattt ttgtgtatag gaaatggcag cttccgattt ctagttggat ttgtcttgca 1920
ttgtttgtat aacttgctgg tcaccaggg ctatttgctt ttccattgag aaatttggtg 1980
ggggtgtcta gttcagcttt tatgttgatc catcctgact tatttttagac attgaattta 2040
tctcaccaca agtaaaagaa catgtgtatt gactgtcttt gctaagtttc ctaatttttc 2100
ctaattatgg caattatgga tgtgaataag aatactgatg ctgtacaaat atttttgtgg 2160
aaatgtacct tgtaaatgtg actattttaa taatatgaaa ataagaatac tcttgaagaa 2220
aaaattaaaa tattttactc ttggaaaaaa aaaaaaa 2257

```

&lt;210&gt; 509

&lt;211&gt; 701

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (9)

&lt;223&gt; n equals a,t,g, or c

360

<220>  
<221> misc feature  
<222> (34)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (600)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (637)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (647)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (676)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (691)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (700)  
<223> n equals a,t,g, or c

<400> 509  
ccccaaagng ggcccgcctg aaagggccct aggnagtaca cctcctagga accctaagcc 60  
agagagagggc ttactacat catgcttcct gacatctctc ccctttgaag agcagtcaga 120  
ctcctgcttt gctcttcaga cttaatttg gggtttaaca ggtgaggttg ctgggggaac 180  
tcttttacia catctctctg aaakaatccg ggctgccagt ttcatttggt ttgggtgtca 240  
gtagcatgat ggaaagacaa aaaaacacaa cttgacatct gcagaaatgg gttcaaattt 300  
tacctgcaac tcaccaattc tgtggccttg gttcagcaat taaactccct aaaattcagt 360  
tttttctttg taaaatgggg ttatgaacag tacctacttc aaaatgtgtt tgtgaagatt 420  
aaaaaaagtta acataaagag ttaraagag tgtctggcaa aaaaaaaaaa aaaaaaaaaa 480  
aaaagggcgg ccgctctaga ggatccaagc ttacgtacgc gtgcatgcga cgtcatagct 540  
cttctatagt gtcacctaaa ttcaattcac tggccgtcgt ttacaacgt cgtgactggn 600  
aaaaccctgg cgttacccaa ctttaatcgc cttgcancac atccccnttt cgccagctgg 660  
cgttaattag ctgaanaggc cccgcaccgg ntcggccttn c 701

<210> 510

## 361

<211> 345  
 <212> DNA  
 <213> Homo sapiens

<400> 510  
 cagagtgcaga cactgtctta aaaaaaatta aaaattgtaa aaaaatgaaa aaaaaagttt 60  
 tgagcattat ttgcatcatt gggatacata tgtcacttca caagatgttc aatttgaagg 120  
 aaataccact catttctctat gtcctgtttgt ctgtagtggtg cttcagtttt tcatattgag 180  
 ttgacctaaa tcctggattc atgacaagaa aggagtaagt actactattc attgttctat 240  
 ttgtttataa tctgtattat aaaattgcac ataattaaaa gctttccctt gtcttcaaaa 300  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaa 345

<210> 511  
 <211> 967  
 <212> DNA  
 <213> Homo sapiens

<400> 511  
 gacctgtcac tgccctccgc cgccctcctgc ccgcgccatg acccakycgg tgccccgggt 60  
 ctccgtgccc gccgcgctgg ccctgggctc agccgcactg ggccgcgcct tcgccactgg 120  
 cctcttccctg gggaggcggt gccccccatg gcgaggccgg cgagagcagt gcctgcttcc 180  
 ccccgaggac arccgcctgt ggcagtatct tctgagccgc tccatgcggg agcaccgggc 240  
 gctgcgaagc ctgaggctgc tgaccctgga gcagccgcag ggggattcta tgatgacctg 300  
 cgagcaggcc cagctcttgg ccaacctggc ggggctcatc caggccaaga aggcgctgga 360  
 cctgggcacc ttcacgggct actccgccct ggccctggcc ctggcgctgc ccgcggacgg 420  
 gcgcgtggtg acctgcgagg tggacgcgca gcccccgag ctgggacggc ccctgtggag 480  
 gcaggccgag gcggagcaca agatcgacct ccggctgaag cccgccttgg agaccctgga 540  
 cgagctgctg gcggcgggcg aggcggcac cttcgacgtg gccgtggtgg atgcggacaa 600  
 ggagaactgc tccgcctact acgagcgctg cctgcagctg ctgcgaccg gaggcacct 660  
 cgccgtcctc agagtcctgt ggcgcgggaa ggtgctgcaa cctccgaaag gggacgtggc 720  
 ggccgagtgt gtgcgaaacc taaacgaacg catccggcgg gacgtcaggg tctacatcag 780  
 cctcctgccc ctgggcgatg gactcacctt ggccctcaag atctagggct ggccccctag 840  
 gagtgggctc gagggagggt tgccctgggaa ccccgaggaat tgaccctgag ttttaaatc 900  
 gaaaataaag tggggstggg acacacgaaa aaaaaaaaaa aaaaaaaaaa aaaaaagtc 960  
 gtatcga 967

<210> 512  
 <211> 532  
 <212> DNA  
 <213> Homo sapiens

<400> 512  
 tactatcggg aaagctggta cgccctgcagg taccgggtccg gaattcccg gtcgaccac 60  
 gcgtccggct cccgggtcca ggcgagttcg cagctgcgcg ccgggtcctg gaggccgagg 120  
 ccgtcccgcc ccgttgctcc cgcagtcctc gacgggagcg ccatggccca gccgcgccc 180  
 gacgtggagg gggacgactg tctccccgcg taccgccacc tcttctgccc ggacctgctg 240  
 cgggacaaaag tggccttcat cacaggaggc ggctctggga ttgggttccg gattgctgag 300  
 attttcatgc ggcacggctg ccatacggtg attgccagta ggagcctgcc gcgagtgtctg 360  
 acggccgcca ggaagctggc tggggccacc ggccggcgct gcctccctct ctctatggac 420  
 gtccgarcgc ccccgactgt catggccgcc gtggaccagg ctctgaagga gtttggcaga 480  
 atcgacattc tcattaactg tgccggccggg aacttcctgt gcccgcctgg cg 532

362

<210> 513  
<211> 515  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (20)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (49)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (464)  
<223> n equals a,t,g, or c

<400> 513  
gcaaacagtt cttccattan tgaagcgaga ggaaaagcca taataattnc atcttcaccc 60  
actacccttc cagagctttg cttctcctcc acatttagcc attaaattgc atgaggattt 120  
ctcttcacatc gggtcgcgat ggaatctttc ttatatTTTA ccctttccta catgtagcct 180  
tgaatgtcct ttccacaaat atgctccac ggctgggagc attttctttt cttttcgtca 240  
cctttgattt ttgggattag attaataggg gaaaaagtcc ctggctttaa agaaaacaaa 300  
agtagaattc ttcaaaaata aatttcatac tgggaacaga aaggaaactaa atgcttcata 360  
aaacagggaa aaagaaatta agatcatcct agaaataaac taagatwaaa ataagtatac 420  
tgacccttgg ttggtagata aaaagatgac cagtcttgta ttgntttaaa attagataaa 480  
catggrttaa gcatgcaaag actctgktcc ttttt 515

<210> 514  
<211> 495  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (467)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (495)  
<223> n equals a,t,g, or c

<400> 514  
tctaacatcc tccctttgct gtyctgaaaa cttcacgtca gagtcatatt taaatgtgta 60  
attactgctc tttctcctgc ttataattca ttatactttt tgaatttgag gcttggtgtt 120  
ttatgaacct tgaaaagccc tctgctgccg gcctctggag ccaccgtctc cctgccctgc 180

## 363

```

tctctcctct gccgagggtgc ctgttaagct gcattctctc ctccacagct ccccgcttcc 240
tgcaggcttc ctgtctcact ttctttctgt gctccagagt ctaggcaatc tctkttgtta 300
gaacttccaa ttcaccaata ctttcttatg ttgygtctaa taagctacat catctgctca 360
ctgggttttt tatttcagtg attatagttt tcatttccag atattccata tgccttaaaa 420
acatctgcat gatactccat ggttttaact cccctgatga atactgngca tttaaccatc 480
ccagcacgtg aggggn 495

```

&lt;210&gt; 515

&lt;211&gt; 446

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (35)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 515

```

attacaggca tgagccaccg cgcccggctg aactnatttt tttttaatga agtgcacgt 60
gttcccactt gcacttaaag ktcacatttg gtgccaggct gtattgcttc ytctcactgg 120
tgagtggcag ctgtgtctcc tttctgccag tccagcagtc ccagctgtca gtggcacctg 180
cataatgaca cgtctgcatt tcccccaat crgcrtgcag cggttttggg aggaggaatg 240
cgactgcatg gcgcgctcgc tgcaacctca gtctgcagcc tgctagggac gcacggccac 300
actcctgtct ttcagcctca gtctgcagcc tgctagggac gcacggccac actcctgtct 360
ttcagcctca gtctgcagcc tgctagggac gcacggccac actcctgtct ttcagcctca 420
gtctgtagcc tgctagggat gcacgg 446

```

&lt;210&gt; 516

&lt;211&gt; 1175

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (639)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (699)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 516

```

aattcggcac gaggtttctc tagaagtaat ttatgttatac aggttatccc ctgagttttt 60
tcttactcac catatgtctg gtggttctca cagccagggg cactgagggg ctctgccttg 120
ggatctggag gccagcactg ttcacctgat ctccaccact gagatacctc tggctagagc 180
cataatcagg tggcccaaag gactgaacaa ggaagaatgg gagggcactc tagactaatt 240
aaggttgtct tttcagtcta aagttaacaa tgacacacat gaattttcat atcagtataa 300
ttagatgcgg gtcccatcta attacagtgg gtcattatgg ctgttcgggtt agagcagctt 360
gggtgctctg tgaccatggc atgtgcccgt gtcaggacta gacaaagtca tttgcttggg 420
gaagctctct ccccttcagg tgtgaggcca ggagcacctg gtgtgggtcc tgtccctgag 480

```

## 364

```

gttctgtcct acaccaccct catgcaacac ctactacaca caggtgcaca gcgactgtca 540
caggcgcttc atgtttaagg atgggcctcc gtgtcataaa cttttttaa gggatatatag 600
rgatagctta tgraatccaa atcaaaggtc cagagtttnc agcaaattgt acctacctat 660
ttgccaaact amctcaccat agaaagccaa aagattcanc ctgtggccag tctttcacat 720
tacagagttt aaagtacttt ttttaaatty ctattttatt ttaacaaaa tatttaacaa 780
aatatagtat atctcatgtg ccagggtacta tttgtaatat ttataaacac tgatttaytt 840
aatcttcaca gagactcatt ttacagattg gaaaacagag gcagagagaa gttaagtaac 900
tttaatgtca ctgagctggg tagtatcaaa gtcttggctg ctggctccag agtctagacc 960
tttaaccact gtgttatgct ttccatgggt aaagcaacct aaaaaggccc ctggaatcag 1020
ttacatgtgg ttggagacta actctgtcat tgacttacta aatgcttgat attgggcaat 1080
ttatctaacc tctctctgca tttagtaagt caatgacaga gttagtctcc aaccactgtg 1140
ttatgctttc catgggtaaa gcaacctaaa aaggc 1175

```

&lt;210&gt; 517

&lt;211&gt; 473

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (338)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (344)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 517

```

ctaacatttt tttccttttt tttcccccaa aggatataat gtattatcta tcaaccactc 60
tctcagaata acttgtttgt tttatcatgt actgtgatag gttagtcatg aatttgcagt 120
taatgaaggg ctatttatct catgcctacc ctacacaggt tctcttcttt tttctttttt 180
gtgacggagc tcaactcttt accaggctgg agtgacagtg cacgatctca gctcactgca 240
atctccacct cccaggttca agtgattctc ctgcctcagc ctcttgagta gctgggactg 300
caagtatgaa ccacatgac tggctaattg tggttttntt tttngtttgt ttgtttgttt 360
gtttgttttt ttggcagcag gtcggtgggt gggcagtggt ttagagagaca gggctctaca 420
ttgtgcccag gctagtctca aactcctgat gtgaagcaat cctctccgct cag 473

```

&lt;210&gt; 518

&lt;211&gt; 1508

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (929)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 518

```

catcgaccgg gagctgagcc ctgagggccc aggcaaggag aaggagctgc ctggacagac 60
cctgcactgg gggcccaggg ccacagaagc cgcaggctcg ggtctgcagc ccctgaagct 120

```

365

```

ggactaccgc gccctggccg ccgtgcccag cgctggcagc gtgcagaggg taccgtctgg 180
agcagctgga gggaagatgg ctgaatctcc ctgctcccct agtggccagc agccgccctc 240
cccgcttctt ccggatgagc tgcccgccaa tgtgaagcag gcctacaggg cyttcgcggc 300
cgtgcccact tctcaccgcg ctgaggatgc ccctgcccag cccccacgc ctgggcctgc 360
agcctccccg gagcagctgt ccttcgggga gcggcagaag tactttgagc tggaggtgcg 420
cgtgccccag gccgagggcc cccctaagcg cgtgtccctg gtgggtgctg acgacctgcg 480
gaagatgcag gaggaggaag ccagaaaact acagcagaag agagcgcaga tgctrcggga 540
ggcggcagag gctggggccg aagcgaggct cggcctggac ggggagacgc tgggcgagga 600
ggaacaggag gatgagcagc caccctgggc cagcccagac cccacctcaa ggcagagccc 660
ggcgtccccc ccgcccctgg gaggtggcgc cccggtgctg acggccaaag ctgaacggcg 720
ccaccaggag cggtgcgcg tgagaggtcc ggagccaccg gcacccgagc gtgccctgtc 780
ccctgccgag ctccggggcc tggaggccga gaagcgtgcg ctgtggaggg cagccaggat 840
gaagtcattg gaacaggacg ctctccgagc acagatggtc ctcagcaggt cccaggaagg 900
ccggggyacg cggggggccc tggagcgant ggccgaggcc ccttcccctg cgcccccccc 960
gtcggccacc cctgtggaag acctcgggcc ccagaccagc acctccccgg gacgcctgtc 1020
accggacttt gctgaggagt tgaggtccct ggaaccatct cccagccctg gcccgcagga 1080
ggaggatgga gaagtggctc tgggtgcttct gggcaggccc tcacccggcg ctgtggggccc 1140
tgaagatgtg gcaactgtgca gcagccgccg ccccgtaagg cctggggccc gtggcctggg 1200
ccctgtgccc tccatagagg gcaggcacct cccccagact tgggggtggg gccctgccag 1260
ctccagcacc acccttgccc caagtctttt aacctgggtg ttagcatttt aaagagaccc 1320
cacaggagtt ctggcctgtg actaactaac tgccccaccc cagccgagac ctcggcgaga 1380
ctgtaactag tgatgtttgt acaaccaaag actctatttt gtggtttaag gagaataaag 1440
ttgactacat tttaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagaaa 1500
aaaaaaaaa 1508

```

&lt;210&gt; 519

&lt;211&gt; 592

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (14)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 519

```

cctcactaag ggancaaaaag ctggagctcc accgcggtgg cggccgctct agaactagtg 60
gatcccccg gctgcaggaa ttcggcacga gtatgtttgt ttcggttgaa atttttcctt 120
aagtgtctgg tgatccctgg atttctgtc ataattaagg aaaagaatgc tgactactg 180
gaccaggca gggcttctct cccagattgc aggttgctc cggggataca cgggtttccc 240
aaatgctaga atgaaaagag attttatttt ggcttgctaa catcaaagat actagtttct 300
ccagatggtt tattcagaac actgttgtct tatttttatt tgtctgagat taaatgtctt 360
cccctttaat taaagggagg tctctgatga agtaggtttg ggaactgcta ccttggtgac 420
agcttgagtc tttccttttag tgaagtgcag cacaattcca cgtgcacggt gaccttctct 480
tgattaggtt gccttggaat gtacagaacc taacttgaat atacagcact ggtttcttgg 540
taagragtgt acagtgatct aaacttgcaa accaaaatac agagatgatg gg 592

```

&lt;210&gt; 520

&lt;211&gt; 568

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens



366

&lt;400&gt; 520

```
gctgcagcct cacagactcg ctgagtcgct cctgcagaaa ggggggggaga gagatcgaaa 60
agcaggggag ggggacggca cggccgttta cctgtctgcc tctcattcg ctctcccccc 120
tcgttctgct cactcctggt gtcagcctat ccgccttccc aaacctccc attcccccg 180
tgtagcccc cccttcactt tccttctcgt cctctgtgtt tctcctctct tctttcttcc 240
cttccccctc tagcattgct accttctctc ctacacgcac gcaggcatat aaacgtaggt 300
ttttgatgct cctctgcctg ttgacccgc tattttcatg tttccaacag gttttcttc 360
ccccagtccc tcagctgctg ctgctgctca ggaggtcaga tctgccactg atggtaatac 420
cagcaccact ccgccccacc tctgccaaga aggagaaagt taaacagcag cagcagtagc 480
agcagtaaca gtagtaacga gagagaagac tttgmttcca cctcttctc ctsttccact 540
cctcctttac aacccagggg ttcggcat 568
```

&lt;210&gt; 521

&lt;211&gt; 987

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (25)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (28)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (61)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (162)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (934)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (968)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (974)

367

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 521

```
tcttcactaa gggatcaaag ctgngcnc ccacgggtgc gaccgctcta gaactagtgg 60
ntcccccg gg ctgcaggaat tgggcacgag tttttttttt ctttgtgaat tgaatgtacg 120
atacaaatgg taggccttca tgtgagccag ttactacatg antcttcatt tcccacagtg 180
gtttgttcat tcatcagcgt taggcttggg cctggctcca cctttctcct ctccgggcac 240
tgacccacc tttccgtgta tttactgtag gctattaaat atgatcatga cccgccttgc 300
attttcattc atcacctgtt tatgccc aaa tttaaaggaa gtttgtctca ttttgccaga 360
aaaaaattgt aatagtcggc acgctggatt tgtagggcca gcaaaattgc ggcagtgaaa 420
ctagtttcac ttctaaagcc cttcatttcc cacaagggtta agctctcgaa accccatttg 480
atccttgggt cctatttcga tctctctttg gaatctgaaa atcgggtctcc atgttgatg 540
cagattagaa gttgccttgt ttgttactct tccaacacag ggtatcaggg agaaagaggc 600
cttatctgtt cctccatccc cctgttttg acagactgct aagaattcct caggacttcc 660
tttggttggg gattttactt tcccaaaagt ctgatctgat ttctttcagg ggtagacaag 720
cttgtcctag tgstctggtt cagggtcttat cagaaggaaa cccagggaat aggaaaaggt 780
aggatgcctt gacttttgtc cctgttggg gggacttaaa gtgttttttg ccagaattgt 840
tcaaaagctc cggtttcaaa ctctgtagga gttttcatgg ggaaaaacaa aacaaaacaa 900
aaaagggtggc ttattcgtcc ccggagatgt tgtnagtaag gttcttccag cacggctttg 960
gggttttncc caantgggga agccaag 987
```

&lt;210&gt; 522

&lt;211&gt; 1155

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (8)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (10)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (13)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (23)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 522

```
tagtgtcntn tgntggaacc ggnctcacta tagggaaagc tggtagcct gcagggtaccg 60
gtccggaatt cccgggtcga cccacgcgtc cgccacgcg tccgccacg cgtccgcca 120
cgcgctccgca acaatatcct tatttttaggt gccactagca gatgtaagcg tatacttagt 180
tgccgttaga tgtgacagaa tgagataatt tatgtaaagc agtagagtac ctggcacaaa 240
```

368

```

gcaaacaata aatattattg ttattgttgt tataattgta aaatgaatga cttcaaaaac 300
atagtccag tttggagga ttttgtgat cagaatatct aagtcataga aatagaagac 360
aggtggaata agtatatgtt cagagttttt agatgtgttg agtagagacg gkaataatgg 420
aagcattaaa tacaaatgaa aatcacacca gatatccctg raattcaagc aaagaaagt 480
catcatgtat tcttgggcag caagagaaaag gactagggtt atggcaatgt gtggaaaagt 540
tgaggcttgc taagggttga gatctgttg tagccctggw tcacatggg tcagcaccag 600
gcagtgscty tgaaagcgga garaggctct ggacttccct tgkgkataac agttcctagt 660
gtccaacaat gaggaaygg tgaagcatgg ttacaaaact gtgacaaaaa tatttacatc 720
tagcactgtt accactcaca tgccaaacat tggctgcaca cgtgcagctt atttgtaatt 780
aacatcaaaa gactagatct gaagccttcc ataaatgaga ggccattcat atggcattcc 840
tggaacaaaa cactgcacag gtaccagcct ctccactcct gaccgggttg gtgctgaaca 900
gtcagggatt gttcttgaac tagacttctg atgcttcttg caatcttctt tcatcttctc 960
ctgaaataca caaataaac aaatacaata acaaatagta attaaatgac tttcaggata 1020
acatctagtt gttcagactt cacccttcac aggtgtgtgt gtatgtgtgt ttatgtytgt 1080
atattgaagc aatttgaatt tatttactgt atatttctg agtaaaagac tgaaatgaac 1140
tacttggttc agaaa 1155

```

&lt;210&gt; 523

&lt;211&gt; 529

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 523

```

agttctgctt tttcgtcttc taccagtctg attaatctgt aggcctaaca cttccttttt 60
ctttctcctt ggaatgcctc ttgggatatg cattagtgtg tcttatgtct tttcttggtc 120
taggtggtgt gtgtgttttg cttgtttggg gcacttttag aggcctccagc tgcacatttc 180
cactcctctc tgtgtgttcc tctctgcac tgctgtttgt gtgtgtacac ttttttctg 240
agcaatcttt ctcttagcc acattgagtt ctttaacagt tttctgttt tcttcttcat 300
taagataatt aataatcata ctactcacat atcatgtttt agaacttctt aagcctttcc 360
ctttccacc ttttggaact ctaactgaa tttcaaagtc tcttctcctt agattaaaaa 420
aataaatcca aagataaaaag aatgtaatgt cttataagtc gtatcagtg atatttctc 480
tggtattgtt gttagtgtta taataaatcc taagtgcac aaaaaaaaa 529

```

&lt;210&gt; 524

&lt;211&gt; 1981

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (57)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 524

```

catgtttgac catggttaata tcttttacta cctggaccat ttaaatttcc taaatgngaa 60
aggtatatat attmctgtaa ctgtagaggg aaaagggaaa gtatttggtt ctaaaaaatg 120
ttagccttcc tcgtaaaagt agcacaagcc cacttatgaa tcaactgagaa aaagtgaaaa 180
acttgagttg gcaaagatgc agagcagcag tgcagatggc aatgaactct ctgaattctc 240
ttttacctta tttagaagaa tgcagagtaa agggaccttc ttggttctgc aggaacttct 300
caagggatga ggagacagaa cccctacttc caagtgtct atttgtatta ccagatgac 360
tgaagcttaa gagaaggcag ggaagtatac aagcagagcc agttctggta caaacaaaga 420

```

369

atttgacagg gacaatggaa ggggtcttctt caccactcct taccttctat gtgatggaaa 480  
gactagagct tataaaagta cttccatttt tttattctcc tgaataccaa aggcaattaa 540  
agtcagctac aaatgacttg ccagtgctcat gttttatttt tgttatagat ttttaaatta 600  
tttcttcaa gatcagttct tatcccatat aatgcttagc ttccaagaat attctttact 660  
ttcttctgtc ttttacagct ctttgcaatt tgtagacctt aatactcagg ttaaattattc 720  
attgcattta taagatcttc tgcaaaaagc ccagaaatgg tccttttcag gtgcctcttc 780  
aaagagctga caccttacct tgtgcctttg gcaaartgtg cagaatagat acatcagttg 840  
gtgcataatc gaaaaaata ggaattttga acactgttct tccttctaca tttatttctc 900  
ttcatttttag aatcacactt tttatgttaa accagattat tattattatt attattcaac 960  
cagtattaag ttgttaaaac caagggaatg gggccctaac caaaaagaag tctcaactca 1020  
gaaaaataag tccccagtc ggtggttctt actttcttgt ggggtgcaca ttttgtatct 1080  
ctctaacatc agcgtattcc tgactttaag cagggtgttta tatgtaaaat aaaacctggg 1140  
tatcgaaggg aaatgcattc tttttatgga gtattgacc tgatcctcta tgatgtcata 1200  
tagagcaact cagggtctata cttgctagat ttttaaccaag cagtttgaaa tattaatcat 1260  
catcctctca tcttctccas tctccattgc caaagtcttt gtcaaaactc caaatttgtt 1320  
gataaaagat tgtgtttgcc attctcattt ataatgcagt ttctccttaa gcctggagtt 1380  
ttttgaatga gtgcattgag aaatgagaga atgtgtgaac gaacatttat gaagtatcta 1440  
acatgtgcca agcattgtgc ctggcacttt caatcattag aatgttttat gtgattccac 1500  
agcattttct gtatragagt agctcacaac attttaaatg tttccaatat gaatcgtgtt 1560  
acaaaattct taattttata tttcatataa attaaagagg aaaaagaaaa ggttttataat 1620  
atattttaaa acaatgtgtt actrtataat acaactataa ttgtagttaa taactaaaac 1680  
ctcttgaaaa tgtcaaagaa atacttgatt tctgatgcaa ctttgactaa aatatttact 1740  
ttagaaataa aaacgttctt attttgctat atcactttta ttgcataatt aaaaagcagt 1800  
gttttataga aatgctgggt attttatatt caaaaagatt ttgtcacata attcatgggt 1860  
aaaacttgca gttgtaaatt gtgtctgtc tggtatgggc cctattaata gtcccatgct 1920  
gttaaataata aagaaaaata tactaaaata ttcaaagttc caaaaaaaa aaaaaaaa 1980  
a 1981

&lt;210&gt; 525

&lt;211&gt; 1570

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1533)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 525

gcccacgcgt ccggcctcct gagtagctgg gactataggt gcccgccacc actcccggcc 60  
aatatttgta ttttttgtgg agacggggtt ttgccatgtt ggccaggctg gtctcaaact 120  
actgggctca agtgatccac cctcctcagc ctcccaaagt gctgagatta caggcatgag 180  
tcaactgcgtc cagcccaacc ctctcttttg atgtgaaagt atcacctttt gtacatttag 240  
tccataccca atatctcttt gcctccttta gtgcaaagtt actcatcctt acttgtatct 300  
aagagaatct ttcctacttt ctgagtgggc actagttttg gagtatatat attgtatgcc 360  
atgaactata tttttctgct tatggctttg cctcatttaa ttgccatagc acttacatgg 420  
ggcagggtatt cattttctctg cttagcaaat aaggaaactg aatttcagag atgtcaggta 480  
acctgcctac ttcacacact aggagttttg atgtttaatt ttgaactaag atctatctgg 540  
cttgaaagct ctttgcatca aacaaccttg aacaatatac ttggaacgta ggtgtgtttt 600  
tggcacagaa catggcatgt gtgtgagggg ttgaacacag acttgcccag attcaaactt 660  
accaatcttc tgtttcatgt gccagaaga aacagcctgt ttctcagcct caaacccaaa 720

370

```

cttctagttg tcttgattgg ttcagcctga ctgtccaact ctgatttata gctgtgattg 780
ggggagctga gattacacag tgtaggcagg cagaagggcc ccaggcctat tgatatgggt 840
gaggacaata ctcaogcact cccttcactt actcactctt ccaaggtctt ggcttgaacc 900
caattttttt tgagagaata aaccaggctt tttgttctcc acttggcctg actccatttc 960
tggcattcca gccatgtatt tagctgttat cagctttcag atttagasaa agccttgttt 1020
ccaataagct tgtttctctg aagtaattgt taaaatataa ttttcagaaa aagggttaaat 1080
catgactcat acaaatataa aaatgaacat gtgctaaaga tttttatttc actcatgtga 1140
tatgaagtaa ccagacagaa gttataacca gtacatatgg aaagtcaaaa agcacaaaatt 1200
catatgtagt aaaggaattg gattgcaa atgtgcaaaa ctgttttttc tacagggtgg 1260
agggaagata atcaaaatgc tagaaccaga atttscatgc ctgtcactta gcttcaattt 1320
acaaaagccc agaataactc aaaggcaa atctagccctg caaatatcag ccctaaagct 1380
gtgctgtggc cagtgcatag ttttctattg aagtacaatt ttttcccaa atacattatc 1440
tctcagaggg agtccaaatt gcttcccttt cactcagcag atctgttcag tcaacagatg 1500
ttaaatagct acagcgtatc aggcacaaat aanttcttta taaaataaag taacaaacta 1560
tatgttgttt 1570

```

&lt;210&gt; 526

&lt;211&gt; 1084

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (35)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 526

```

caatttctag taggaagaga ataattacat ttgcnggggg ggggtggataa aaacatgtct 60
gcttctcatt taaataagag agaaatgatg ccgtttttta aatgtgaagc agactataat 120
tctcagctct cttttcttct tagccttaaa ttaatattct ctttcttcta gttttggaaa 180
gtgtagtggg aatattcaga caaaagaggc cattttccat ttttaaagct tcttactggg 240
gaaacagccc agttgtagta ggtgccagtc agtcaaggca ggggcctctc tccgtcaata 300
tggaaaactc agcagttttc ctctcccca gttgtgttct tgtaacgttg ttaatgggtt 360
cctttgcttt ttgctttctc cttttctgaa aatgtatgtg ttttgctct cttttggcta 420
catcttcaaa atatttcttt tgtgcctatg tacatgtgta aacatgccat agcatgtgtg 480
gtagggtgtc tgtattttgt ttgggaaaaa aactatcaaa atgaggaaga gaatttcccc 540
tatttatgca ctagggttct gtgctttttc tttgagttct ctggagtaga tattaatttg 600
ataccttcat ggtaatgaaa ttatgatgga gctgtgttat aaattcctta tgtcagaggc 660
cagtgcggta gcctttgtcc ctctcatgcc ttcaattctg agtgggagga aaagcaaaaca 720
tcaaaacagt gcttcagcca aattccatat gtaatgccat tgggagagta ttgactaaaa 780
tatcattcgt cagggaaata tagttgtaat atttttacag gatattccta ggtaaatgaa 840
ggagccttca gttgtaaatt tcaattaccc caaaatgtat ttgctacatt ttgttggttg 900
aagtattacc tcttaacctt ctttgtaaat ttttttcaatt ttgtcttata tagtccagtt 960
ttccaagata agctcagtc tttttcaaat gtcacctttt taccaatact ttttcattaa 1020
attatgaaaa ctgctaaaaa aaaaaaaaaa acaaaaacca agtacctgcc cgggcgggacg 1080
ctcg 1084

```

&lt;210&gt; 527

&lt;211&gt; 1506

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<220>

<221> misc feature

<222> (1491)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1502)

<223> n equals a,t,g, or c

<400> 527

```
tatagaaggt agcctgcagg taccgggtcc gaattcccgg gtcgaccac gcgtccgact 60
aaaggcagca agggattgta aactaatctt acatagtcaa tgtttcatag aatgctttgg 120
ttacaatcag gttttttaa gactttaaag gttttttgta tgctataata tatgcttatg 180
atttctaaaa attatgcagt atacacaaag ggcataaagt caaaaagtgt gtctccctct 240
gtgactttat tctcatacc cagagggtata taatttcttg tattcttggt tagtctttaa 300
gaaatgttat cgtttatttt atatatggct ctctctctgt atgcctcttc ctgttcttat 360
tttaaagtgt caagtttggt acttggttct tgtttaactt ggttgctctt ccatattgcc 420
accttccagc tctaacatta atgtctccag gattccatta tatggatgtc cctttggaga 480
acatttgttt atagactttt ctactaaaaa tattgttata atgataatat ccttatgcat 540
atatgaagat tactcttgat tctgcctgac tggaaacttt attaataaag tagacattat 600
tctattttga ggctcaccag ctgtgtaggt atgatcttgt gcttccattt aagaaattct 660
tccattttaa gaagaaaaaa aatctctcta attgactatc tgaagatata tgaaaaagcc 720
tatgctttta aattaaactg ttaagacagt ccattgaaag attgtggaag ttcacatcta 780
ttttgcacct taattttttc attgtcccta ctcagtactc taaaaagtgc atggcctggg 840
gctatacttt gttttgcagt ttgttggtat cgtgcctttc cttatctaca ttagcttaga 900
ctatacctta tttttaagaa gagaaagtgg aaattaactg tggcaaaacc tattttggca 960
caaccacatt tggtcattat acaaaattag ctctctatgc tttagaaaaa atgtgagtta 1020
ttactctgaa agttgtgatt ctgattcctc atgggttggg gctcagaaat ttcttaacat 1080
gtcttttgct ttagtcaagc acaggatttg ttttctgcaa aagtttattt tcaatgaaga 1140
atacttgtcc taatagctca taaaaagtac ctttgcactt taaatcctag gaatagggaa 1200
caaggaaact tactgggaag ttcaaaagaa agaataacag gaccttctag tcagcagggc 1260
atgtttggaa aatgttaata cgccatgatt tttgaagacc aattttagtt caggaggtgg 1320
ttttaaatat tggatgaaaa cttacaggct gttttcaata ttcatttctg aaatacttta 1380
gtatgataga taaatttggt taagttcttg ttcattgtga aatactgttg gaagaatttt 1440
tttcaaaata aagacttctg aatttgtgta ccaaaaaaaa aaaaaaaacc ncgggggggg 1500
gncccg 1506
```

<210> 528

<211> 321

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (231)

<223> n equals a,t,g, or c

<220>

<221> misc feature

372

&lt;222&gt; (315)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (320)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 528

```
ctgcactaca cagctgttgg tacctattag caaactgcgc tgctctaacc tgccacctat 60
ccctttgccc caacacaact acggttgcca ccgtgcccac aacaattcca actgtaacac 120
tggttaattgc gtactctgcc acaaatagcc cttgcgggag caccagcatg ctgggcctgc 180
ttgcgttgcc gtctatgtcc acatataagg cggcgagcgc ctacacaaca nctcttttaa 240
ccttcacgtt ggtgggtaca ttaacttgg ccacgtacg cttactcagc agcaacagac 300
ttacctgcaa caacntccan t 321
```

&lt;210&gt; 529

&lt;211&gt; 814

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (171)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 529

```
gtgggattgc aggcacccac catcatgccc tgctaaattt tgtacttttg tagagattgga 60
gtttcaccat gttggtcagg ctggtcctga actgctgacc tcaggatgac tgcccacctt 120
ggcctcccaa agtgctggga ttacaggtgt gagccaccat gcctggactc nttgttgttg 180
ttgtttttaa ttagtgagga gctacaagaa cacatttata aaaattaaga ggaaacagcc 240
ccactgcatt tgagaagggt accatttcct tcgaagtcc tgctgttgcc ccttctcgtt 300
gggggagaca ctgtcctgtt tcagtcattc cgttgctttg ctttatagtt ttattaatgt 360
gtttgtgttg gctttgcatg ttttcaaata tatgaatgaa atcatgcaga gtttattcct 420
ttacagttag ctttttccat tgattatgtt cctgagatgt atccggatta ttgtgtgtag 480
ctgtatggca ttccttttcc ctgctgccta gtgatccatt gaaaatacaa taattgattt 540
ttctatgttg ttccactggt catTTTTctg ccctgtgccc ctttggaat catctcctaa 600
actctagtct cggcccttgc tcttccatgt aaccttgaga atcagcttgt caaattcccc 660
ccaaaaaccc cttgagatgt agaatgkaac ccagctgaat ctatagrtca gtctggataa 720
aatcagcacc tgtgtaaaat tgaattttcc cattcatgag cagggtttat ttctgcactc 780
aatgttttca ataaagttgt gtaccttttc ccat 814
```

&lt;210&gt; 530

&lt;211&gt; 326

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (254)

&lt;223&gt; n equals a,t,g, or c

373

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (273)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (289)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 530

```
ggactgagct cggcgccctct agtgtagatg ggtttttaat tttcccagct gaacgtcggt 60
atttggaattg tgatttcttt ggtgwttcaa tggactgtag atgaaggagg acctgttttc 120
tctcaggagt gtctgtgggg tctcttggtcc tggtttgctc agtgaagtgt ggccccaagg 180
gctgagggag gtggccagga ccccgagggg tggcccccac cacagaggct gctgtcctac 240
gggttcttct ccantttctg ggaccttgcc gangagcctc tgggagggng aaatggccac 300
aggcctggag aatcgacacc cgggtgg                                     326
```

&lt;210&gt; 531

&lt;211&gt; 564

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (470)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (501)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (521)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (564)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 531

```
gggcctggtg ggcccgtgctc tgggtgtgcag ggctggtgcc ttgggtgcag atggcaagca 60
gaaaggggtg gataaagaat tctttcttct cttcactgtg ttggatgaga acaagagctg 120
gtacagcaat gccaatcaag cagctgctat gttggatttc cgactgcttt cagaggatat 180
tgagggcttc caagactcca atcggatgca tgccattaat gggtttctgt tctctaacct 240
gcccaggctg gacatgtgca agggtgacac agtggcctgg cacctgctcg gcctgggcac 300
agagactgat gtgcatggag tcatgttcca gggcaacact gtgcagcttc agggcatgag 360
```



374

```

gaaggggtgca gctatgctct ttcctcatac ctttgtcatg gccatcatgc agcctgacaa 420
ccttgggaca tttgagattt attgccaggc aggcaagcca tcgagaacan ggatgaaggc 480
aatctataat ggctccaatg ncctggggcac caagccaccc ntggcaacgc ttccaacttg 540
caagaatcta ctatttcatg gcan 564

```

<210> 532  
 <211> 616  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (149)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (613)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (616)  
 <223> n equals a,t,g, or c

```

<400> 532
gttccaggaa ccagcaaaca agaggctgct cccgcaggag gcagtgtgaa tggagaaaga 60
aggctgcagt aggggctgct gctggactcg gtggggagca ggtgcaagga gctctggctc 120
ccccatggac ctgagctgga gagcagagng cagctccagc ccattcctca ttcttccagg 180
gcacagtccct caggatgttt cggggagaat aggagccaga acctgagccc ctaagccatt 240
cccctcacca atgatggggg ccccgatgag tcattctgctg gccggcttct gtgtgtgggt 300
cgtcttgggc tgggtagggg gctcagtccc aacctgggcc ctgctgagca ggagcagaac 360
cattacctgg ccagctgtt tggcctgtac ggcgagaatg ggacgctgac tgcagggggc 420
ttggcgcggc ttctccacag cctggggcta ggccgagttc aggggcttcg cctgggacag 480
catgggcctc tgactggacg ggctgcatcc ccagctgcag acaattccac acacaggcca 540
cagaaccctg agctgagtggt ggatgtctgg gcaggggatgc ctctgggtcc ctcaggggtg 600
ggtgacctgg aanaan 616

```

<210> 533  
 <211> 649  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (644)  
 <223> n equals a,t,g, or c

```

<400> 533
ggccagcatg gatcctgaca gtgatcaacc tctgaacagc ctgatgtca aaccctgcg 60
caaaccctgt atcccatca tcatagcact actgagcctg gcgagtatca tcattgtggg 120

```

375

```

tgtcctcattc aaggtgattc tggataaata ctacttcctc tgcgggcagc ctctccactt 180
catccccagg aagcagctgt gtgacggaga gctggactgt cccttggggg aggacgagga 240
gcactgtgtc aagagcttcc ccgaagggcc tgyagtggca gtccgsctct ccaaggaccg 300
atccacactg caggtgctgg actcggccac agggaaactgg ttctctgcct gtttcgacaa 360
cttcacagaa gctctcgctg agacagcctg taggcagatg ggctacagca gcaaaccac 420
tttcagagct gtggagattg gccagacca ggatctggat gttgttgaaa tcacagaaaa 480
cagccaggag ctctcgatgc ggaactcaag tgggccctgt ctctcaggct ccctggtctc 540
cctgcactgt ctgctctgtg ggaagagcct gaagaccccc cgtgtggtgk ktggggagga 600
ggcytctgtg gattcttggc cttggcargt cagcatccag tacnacaaa 649

```

&lt;210&gt; 534

&lt;211&gt; 723

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 534

```

tcctctaaca cattcagact acaagtccag acccaggaga gcaaggccca gaaagagctg 60
gaaaggcagc tcactatgca gagtgaatg agggaaagac aaatggccat gcagattgctg 120
tggtctcggg aattcctcaa atatttttga actttttttg gccttgcagc catctcttta 180
acagctggag cgattaaaaa aaagaagcca gccttcctgg tcccgattgt tccattaagc 240
tttatcctca cctaccagta tgacttgggc tatggaaccc ttttagaaag aatgaaaggt 300
gaagctgagg acatactgga aacagaaaag agtaaatgac agctgccaag aggaatgac 360
acttttgaaa gcattgaaaa agccagaaaag gaacagagta gattcttcat agacaaatga 420
aatcatgctt accaatcaaa tctcaaagca cagaattatt gacttgaatc atggttttta 480
cagtttttta aatgctcaag attttgatat tatagatttt attttaaaat attaaaatgc 540
aagatagttt tgagctattt taaaataaaa ttataacat tcaacacaaa atcatggagg 600
tgctctaaat aacttttaga ttctctctct ctgtgtgcat taccaatatc taagtgtaaa 660
attaataaat tgttttgaat tcctggaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 720
aaa 723

```

&lt;210&gt; 535

&lt;211&gt; 796

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (742)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 535

```

gattggaagg cgtgtttccg gctggactga aatcctgtga ggaagattcg cgccctcccc 60
gccccctgcc ctccctggga atcctctgaa gatgcggccc cctgtccttc gtgaaccggt 120
agccccggcc tcggccccgg ccagcccct tccgggggcc gaccggggt gggacttcgt 180
gggtcctagc ctgagcccg ctcggggagaa caggcccgcc cgctgtgggg aggggcccgt 240
cgctatcttc gccggggggt ctgggaggcg aacacgtgcc cgccgcccc ggcctgcgtg 300
aacttcgtcg cgccartctt ccggcaaagg gtctcttttt tttagtttag gtaaaataaa 360
atctcccaga gaaaacaaag ccgggaagg agccccctt ctgtgaaacg catgccatct 420
tctccatttg tcagtttgat gctgtaacgt acatgggggt ttgcaagagc ttcaaaactg 480
tctgcagacg tcaatttcgc ccctccccct gtgagaactc gctacgtarc cagcaactgt 540
gtagtgttac aaatgatgaa aacgatcaga aatgcgatta ggtgtcgggg aaaaaagggt 600

```

376

```

ttccccgtgkt tttaacttgk atttttactt taattgttac aatcttgata ttcttaacgt 660
gactttttttg ggaaaccacc aagtgcctttt taagcaagga gttactggta tttatgccct 720
taatattcct tcattatagg cntattgaat acgttaatat ctcagtaagt gtatttgaat 780
tataattgac tggcctt                                     796

```

```

<210> 536
<211> 1135
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1107)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1123)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1129)
<223> n equals a,t,g, or c

```

```

<400> 536
cggacggtgg gncgncgaca caatgggcca yggagtcccc gttcgatgtg gacgcgctgt 60
tcccggagcg gatcacggtg ctggaccagc acctgaggcc cccagcccg cgaaccggaa 120
ccacaacgcc ggcccgtgtt gatctacagc agcaaattat gaccattata gatgaactgg 180
gcaaggcttc tgccaaggcc cagaatcttt ccgctcctat cactagtgc tcaaggatgc 240
agagtaaccg ccatgttggt tatattctca aagacagttc agcccgaccg gctggaaaag 300
gagccattat tggtttcatc aaagttggat acaagaagct ctttgtactg gatgatcgtg 360
aggctcataa tgaggtagaa ccactttgca tcctggactt ttacatccat gagtctgtgc 420
aacgccatgg ccatgggcga gaactcttcc agtatatgtt gcagaaggag cgagtggaaac 480
cgcaccaact ggcaattgac cgaccctcac agaagctgct gaaattcctg aataagcact 540
acaatctgga gaccacagtc ccacaggtga acaactttgt gatctttgaa ggcttctttg 600
cccatcaaca tcggccccct gtcctctctc tgaggggcaac tcgacactct cgtgctgctg 660
cagtcgatcc cacgcccgtc gtcctcagca ggaagctgcc acccaagaga gcagagggag 720
acatyaagcc atactcctct agtgaccgrk aatttctgaa ggtagctgtg gagcctcctt 780
ggccccataa caggggcccc cgccgcgcca cacctccagc ccaccaccc ccccgctcca 840
gcagcctggg aaactcacca gaacgaggtc ccctccgccc ctttgtgcca gagcaggagc 900

```

377

tgctgcgttc cttgcgcctc tgeccccac accctaccgc cgccttctg ttggctgctg 960  
 accctggggg cagcccagct caacgtcgtc gcaccagctc cttccccgc tctgaggaga 1020  
 gtcgatactt aacagcttac ctttctccct gccctggggg agacctgggg gtggggcagg 1080  
 ggaacccctt ttcttgagga accttttnagg acccattttt ttncatttng cattc 1135

&lt;210&gt; 537

&lt;211&gt; 1234

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 537

gactagttct agatcgcgag cggccccctt tttttttttt tttttttttt tgttttttgg 60  
 ctctttcaaa ggtaatggcc catcgatgag cttttttaac atactccata gtcttttcct 120  
 gtgggtgttag gtctttatatt ttattttttt cctgggggct ggggtggggg tttgtcatgg 180  
 ggggaactgcc ctttaaattt taagtgcacac tacagaaaaa cacaaaaagg tgatgggttg 240  
 tgttatgctt gtattgaatg ctgtcttgac atctcttgcc ttgtcctccg gtatgttcta 300  
 aagctgtgtc tgagatctgg atctgccccat cactttggct agtgacaggg ctaattaatt 360  
 tgctttatac attttctttt actttccctt ttctctttct ggaggcatca catgctgggtg 420  
 ctgtgtcttt atgaatgttt taaccatttt catggtggaa gaattttata tttatgcagt 480  
 tgtacaattt tatttttttc tgcaagaaaa agtgtaatgt atgaaataaa ccaaagtcac 540  
 ttgtttgaaa ataaatcttt attttgaact ttataaaaag caatgcagta ccccatagac 600  
 tgggtgttaa tgttgtctac agtgcaaaat ccatgttcta acatatgtaa taattgccag 660  
 gagtacagtg ctcttggtga tcttgatttc agtcagggtta aaacaacgga caataaaaga 720  
 atgaacacat tctctgtgtg tgattcactc ttgtctaaat gtcccaacct gtgacttctt 780  
 tactttccac accactaatt atccaagatc ttgaagaagt attgaacctc taataggcca 840  
 tctctgtgga gatcagtaca gtgaacagca ttctggatct tagttttacc aaagattgct 900  
 ctgagagttc cagggcgtaa atgcccggga atttcaggat cagcagggtc acaaaattct 960  
 cgaaatgtct ttgtagcatt attctgttga atctccattg ctacacaagg gccagaatac 1020  
 atttctgtca ccattgtcat atattcggtc actactcctt tataaacttc atagaattcc 1080  
 tcaacattaa ccgatccat attgaacatc tgcatagctg agatttcaaa acctgcatct 1140  
 cggatagcca tcaggatctt tccaacagt ctttactga cagcatgggg ttaacaatg 1200  
 caacaggtag aattagtaaa ttagcagtg tttc 1234

&lt;210&gt; 538

&lt;211&gt; 1539

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 538

gcaaaatgtg attatgtttg ttggattgca agggagtggy maaacaacaa catgttcaaa 60  
 gctagcatat tattaccaga ggaaagggtg gaagacctgt ttaatatgtg cagacacatt 120  
 cagagcaggg gcttttgacc aactaaaaca gaatgctacc aaagcaagaa ttccatttta 180  
 tggaaagctat acagaaatgg atcctgtcat cattgcttct gaaggagtag agaaatttaa 240  
 aaatgaaaat ttgaaatta ttattgttga tacaagtggc cgccacaaac aagaagactc 300  
 tttgtttgaa gaaatgcttc aagttgctaa tgctatacaa cctgataaca ttgtttatgt 360  
 gatggatgcc tccattgggc aggccttgta agcccaggct aaggctttta aagataaagt 420  
 agatgtagcc tcagtaatag tgacaaaact tgatggccat gcaaaaggag gtgggtgcact 480  
 cagtgcagtc gctgccacaa aaagtccgat tattttcatt ggtacagggg aacatataga 540  
 tgactttgaa cttttcaaaa cacagccttt tattagcaaa cttcttggtg tgggcgacat 600  
 tgaaggactg atagataaag tcaacgagtt gaagttggat gacaatgaag cacttataga 660  
 gaagttgaaa catggtcagt ttacgttgcg agacatgtat gagcaatttc aaaatatcat 720

378

```

gaaaatgggc cccttcagtc agatcttggg gatgatccct ggttttggga cagattttat 780
gagcaaagga aatgaacagg agtcaatggc aaggctaaag aaattaatga caataatgga 840
tagtatgaat gatcaagaac tagacagtac ggatgggtgcc aaagttttta gtaaacaacc 900
aggaagaatc caaagagtag caagaggatc ggggtgtatca acaagagatg ttcaagaact 960
tttgacacaa tataccaagt ttgcacagat ggtaaaaaag atggggaggta tcaaaggact 1020
tttcaaaggt ggcgacatgt ctaagaatgt gagccagtca cagatggcaa aattgaacca 1080
acaaatggcc aaaatgatgg atcctagggg tcttcacac atgggtggta tggcaggact 1140
tcagtcaatg atgaggcagt ttcaacaggg tgctgctggc aacatgaaag gcatgatggg 1200
attcaataat atgtaaagaa aatgccttaa tataaactga ctcagttgaa tacctaattt 1260
gctgagacct cagcgtttcc cttctttttg cgaattgggg agaaagtgtg tttttcttgc 1320
ttatcatgca ctctttcctt tttttctcgc ccgtttttcc cctccttttc tttttccttc 1380
cttctttcct ccctttaata taagggagaa atacatgggt tttgtggaaa tcattatatg 1440
tttgcttttag attttcttct gttttcacca tcataacact taagttaa at catgatgtaa 1500
aatttttagta cctcggccgc gaccacgcta agccgaatt 1539

```

&lt;210&gt; 539

&lt;211&gt; 788

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 539

```

gagtcctcata tccttgact tcagtttttt tgtgtgtgaa tactatccct ataccactac 60
ccctaaaacc tcagaattat ttgctttatt ttttcataca acttggggaa gggaaccatg 120
ggagtatgca catgggatca taatccattc tgtggtttgg aaaaagaaaa tgtaaacctc 180
tgcttttagag ggtagctact agctttgttg gggataaaaag tgtaatacat gcacttttga 240
actctgaaag tttgccaatc tgaaaagggg tgtttctgaa gaccactatc ttttacgaac 300
acttaaaaat aagtgtttgc agttgtgtat gggcacgata ctgtattcct tacattttta 360
tgggccctaca gctacttctt atccctgcaa gtatataaat taaaaccaag tcactttaga 420
acagctttga aactagagtt tcaaaggtaa aaggatctca tgtttctgaa tctgcgtaaa 480
gcaagatggc tgtgatttga caggtttaat tgctagkttt tataggtgga tagaaatgaa 540
tagtttggag tctttaaaat gttttaaaaa atgtttgctt actatctata tatatgacat 600
tattoccaat tagttttata tctccaagat atatatatgt atataggtat atacacatat 660
gtatatatac atagtctata tattctatat aagaatatat tccaataaga atatattcca 720
tacgggaata tattagtc at tgatgtat tgcgggtaaa attaaaagat attttaacaa 780
aaaaaaa

```

&lt;210&gt; 540

&lt;211&gt; 874

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 540

```

ccacgcgtcc ggcggacgct gggcggacgc gtgggaaaaa agctgcgagg aaattgactt 60
agacaaacac aagagcatcc aaagaaagaa aacagagggtg gaaatagaaa ccgtacatgt 120
cagtacagaa aagcttaaga atcgaaagga gaaaaaaagc cgagatgtag tctctaagaa 180
agaggaacgt aagcgtacaa aaaagaaaaa ggaacaaggc caagaaagga cagaggagga 240
aatgcttttg gaccagtcta ttcttggtt ttgaagctt caaagttggt tctcccaaag 300
ttaaattgaa aaaataggtg agagcttggt tttatgat at cgtgttcat accacttttc 360
ttatgtgaat aggttcttta acttctaaca aaggcctagt aaacaaagtg tttagcatgc 420
ttgctctcca acacagaaat tgcttttctt ctttttctaa aagcattatt acattttttg 480
aacatatagt gtaatttctt ttaatgaaag tgactctgct tttattcatc aaattgcttt 540

```

379

gatgggtggaa atatcttctg ttgggaggtt atttatttta aattggagga ttaatgacct 600  
ttgcacaatc tgcttcttga ttgggtttgt tatagttttg agttgggtat tttatgttca 660  
ttggtttttc tctgtgaagc aatttttttc tcctttatta gatctaactt gcagtgtatt 720  
ttctaggctg gaaagtggaa aatgaaatat attatratct taggttacat aaagtttcta 780  
aagtttcaaa gagtcttgat acaaaatcag tttatattct gaaaatattt ataataaagt 840  
attctaattt ctaaaaaaaa aaaaaaaaaa aaaa 874

&lt;210&gt; 541

&lt;211&gt; 549

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (38)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (536)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 541

tgggcggttc cttcacccgc aacccgagag acgaccncc gggcccgccc cgcggaagcc 60  
gccggttgcc aggccaagga gtggactagg gtcgccgggg aagcggtttg ggagagccca 120  
tggtgactgc gtgagtggag ccagctgtg tggatgcccc agcatggatg actacatggt 180  
cctgagaatg attggggagg gctcsttcgg cagagctctt ttggttcac atgaaagcag 240  
taatcagatg tttgccatga aagaaataag gcttcccaag tctttctcta atacacagaa 300  
ttctaggaag gaggctgttc ttttagccaa aatgaaacac cctaataattg ktgccttcaa 360  
agaatcattt gaagctgmag gacacttgta tattgtgatg gaatactgtg atggasggga 420  
tctaatacaa aagattaaac agcagaaaag gaaagttatt tcctgaagac atgatactta 480  
atgggtttacc caaatgtgcc ttggagttaa atcacattya cawgaaacgt gtgctnccca 540  
agagatttt 549

&lt;210&gt; 542

&lt;211&gt; 467

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 542

ggccagccct ggggagcctt aaaaaccgga gctggcgctt ggcakcgcca ctctgggcag 60  
gatccaacgt cgctccagct gctcttgacg actccacaga taccgccag ccatggcaag 120  
caagggcttg caggacctga agcaacaggt ggaggggacc gccaggaag ccgccatgga 180  
ccagctggcc aagaccaccc aggaaccat cgacaagact gctaaccagg cctctgacac 240  
cttctctggg atygggaaaa aattcggcct cctgaaatga cagcaggag acttgggtcg 300  
gcctcctgaa atgayagcag ggagacttgg gtgacccccc ttccaggcgc catctagcac 360  
agcctggccc tgatctccgg gcagccacca cctcctcggg ctgccccctc attaaaattc 420  
acgttcccaa aaaaaaaaaa aaaaaaaaaa aaaaaaagtc gtatcga 467

&lt;210&gt; 543

&lt;211&gt; 1211

380

<212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (1156)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1165)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1190)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1193)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1194)  
 <223> n equals a,t,g, or c

<400> 543  
 gtgaaaaaag acactctgac agaagaggag actcagtttt atatagcaga aacagtatta 60  
 gccatagact ctattcacca acttggattc atccacagag acatcaaacc agacaacctt 120  
 ctttttgaca gcaagggcca tgtgaaactt tctgactttg gtctttgcac aggactgaaa 180  
 aaagcacata ggacagaatt ttataggaat ctgaaccaca gcctccccag tgatttcact 240  
 ttccagaaca tgaattccaa aaggaaagca gaaacctgga aaagaaatag acgtcagcta 300  
 gccttctcca cagtaggcac tcctgactac attgctcctg aggtgttcat gcagaccggg 360  
 tacaacaagc tctgtgattg gtggtcgctt ggggtgatca tgtatgagat gctcatcggc 420  
 taccacactt tctgttytga gaccttcaa gagacatata agaaggtgat gaactggaaa 480  
 gaaactttga cttttcctcc agaagtccc atctctgaga aagccaagga tctaattttg 540  
 aggttctgct gtgaatggga acatagaatt ggagctcctg gagttgagga aataaaaagt 600  
 aactcttttt ttgaaggcgt tgactgggaa catatcagag agagacctgc tgcaatatct 660  
 attgaaatca aaagcmttga tgatacctca aacttcgatg agtttccaga atctgatatt 720  
 cttaagccaa cagatgcctt cctgggggat actcctcccc accctaaagg gtcgcctgca 780  
 acttaggcgg attgggtctc tctgctgtgg cgttctctct tgagagaccc tctgaatttt 840  
 agcacaaagt gccttctgtt tcacagctgc caccaccttt agaggaattt cgtcagaaaa 900  
 atgtggaggc tccatattaa tgcattatct tttaaaaagt tttgataact cttaaagcat 960  
 catttgcacc tatgtgggaa ctttgcctgt tgcaaagtat tgtggccgag ctgcagctgg 1020  
 gagectgctt tctgccagtc ttgaggttct gaagatcagc tttgaaagga aagtatgtcc 1080  
 tagcttagcc attcagaaga gaaaaatggr atatcagagt tacagttgtc agtgaaacta 1140  
 ctttgatttt taaccnctag aggangaaaa aggttaggrg gcactctgtn agnntggggt 1200  
 gcttagctta t 1211

381

<210> 544  
 <211> 1463  
 <212> DNA  
 <213> Homo sapiens

<400> 544  
 ttttcgagctc tgcaccgagg agctgccctg gacttgagtc ccttgcatcg gagtccccat 60  
 cccctcccgc aagccatatt ctgttgatg agcttcagtg cctaccagac agcctttatc 120  
 tgccttgggc tcctgggtgca gcagatcatc ttcttcctgg gaaccacggc cctggccttc 180  
 ctgggtgctca tgcctgtgct ccattggcagg aacctcctgc tcttcctggt cctggagtcc 240  
 tcgtggccct tctggctgac tttggccctg gctgtgatcc tgcagaacat ggcagcccat 300  
 tgggtctctc tggagactca tgatggacac ccacagctga ccaaccggcg agtgctctat 360  
 gcagccacct ttcttctctt cccctcaat gtgtggtgg gtgccatggg ggccacctgg 420  
 cgagtgtctc tctctgccct ctacaacgcc atccaccttg gccagatgga cctcagcctg 480  
 ctgccaccga gagccgcact ctgcaccccg gctactacac gtaccgaaac ttcttgaaga 540  
 ttgaagtcag ccagtcgcat ccagccatga cagcctttctg ctccctgctc ctgcaagcgc 600  
 agagcctcct acccaggacc atggcagccc cccaggacag cctcagacca ggggaggaag 660  
 acgaagggat gcagctgcta cagacaaagg actccatggc caagggagct agggccgggg 720  
 ccagccgcgg cagggctcgc tgggggtctgg cctacacgct gctgcacaac ccaaccctgc 780  
 aggtcttccg caagacggcc ctgttgggtg ccaatgggtgc ccagccctga gggcagggaa 840  
 ggtcaaccca cctgcccatc tgtgctgagg catgttctctg cctaccatcc tctccctcc 900  
 ccggtctctc tcccagcatc acaccagcca tgcagccagc aggtcctccg gatcacggtg 960  
 gttkgttgga ggtctgtctg cactgggagc ctccaggagg ctctgctcca cccacttggc 1020  
 tatgggagag ccagcagggg ttctggagaa aaaaactggg ggggttagggc cttggtccag 1080  
 gagccagttg agccagggca gccacatcca ggcgtctccc taccctggct ctgccatcag 1140  
 ccttgaaggg cctcgatgaa gccttctctg gaaccactcc agcccagctc cacctcagcc 1200  
 ttggccttca cgctgtggaa gcagccaagg cacttctca cccctcagc gccacggacc 1260  
 tctctgggga gtggccggaa agctcccggt cctctggcct gcagggcagc ccaagtcag 1320  
 actcagacca ggtcccacac tgagctgcc acactcgaga gccagatatt tttgtagttt 1380  
 ttatgccttt ggctattatg aaagagggtta gtgtgttccc tgcaataaac ttgttctga 1440  
 gaaaaaaaaa aaaaaaaaaa aaa 1463

<210> 545  
 <211> 536  
 <212> DNA  
 <213> Homo sapiens

<400> 545  
 acccctgcag gtaccggctc ggaattcccg ggtcgaccca cgcgtccgcc catttttccg 60  
 gttgataatg caatagataa tgkraaagaa attcaagttg cattggytat cttaatggca 120  
 gcttatgcaa tggcggagc gtttatgtca acaggagttg gagcttctct tatectaatt 180  
 gcattaaaag taggaattac tgctaaaact gttgcagtta taggagctat tgtcacatca 240  
 atattatcaa tagcaactgg gacaagttgg ggaacatttg cagcctgtgc acctattttt 300  
 ttatggctaa atcatatagt tggcggaaat attttattga caacagcagc tattgcagga 360  
 ggagcatgtt ttggagataa tataggactt atttcagata ctacaatagt aagttctggg 420  
 atccaaaaag ttgaagttgt aagaagaatt agacaccaag gtgtatggc agcattagtt 480  
 ttattatcag gaataatagt atttgctatt gttggattta catggattta cccttc 536

<210> 546  
 <211> 588  
 <212> DNA



382

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (572)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (577)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (585)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 546

```
ttttttttttt atttccatat gggctaaaga atccaaatat tttaaaaatc tgtctctctt 60
ttcttctctc ataaagtga ttattccttt tttttgtttt atgtaagtgt atatattctt 120
agtttttctt gaaatcattg taatgttaac tttgttgttt caaatatctt ggtgattgct 180
tcattatctc ttcaacaaaa aaaaccttta attttgccat tgaaactgta gaactatgcc 240
atgcttttat tagaagcagt gctctgtgtt aacaacaaga atgggtgtaat tagaattggg 300
atgtggatat ttactgtatg acaacacatt tacagtctctg taatgcaagg atgcagttta 360
aaaatgtgaa gtagtgatgg tttttgaaat aagcttttaa atatagggat cttgaaggct 420
ccctggggta actattttat aacttagata aaatggctag tcatatctgt gtgtttgtaa 480
agttattttt ttaatatttt aagrttacia ttttaacaat gtagraatga gccaaacttt 540
taaattkaaa acagtaarac aaatggaaac cnatagntca caaantcc 588
```

&lt;210&gt; 547

&lt;211&gt; 1585

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 547

```
ttttttttttt tttttttatg agcaggagat cttaattgac agaaactcat tgggtggttg 60
agtggccaat ggcacgggaa aaagtatcca gtaatcagaa gaattgtatc tgggttatgt 120
aatcttatgc acattccatt gtctttgcca agcccagaag ccatgttgtg ttcatgttta 180
agaaatttga tagatttacc cagcttttct atgtattttg acttattgaa aatatgtaac 240
aactgagtgc ggttgacgca ctggtggggg agaatcgact ttccctgaag gtgacacaga 300
tgtcagaatt gtgtccaggg atttaattta gaccataact gtccaggaga ctgtctctas 360
ytggatctct gtgctgactg actgacagac agacttttagt gtctgtgtgc tgactgacag 420
actctagtag tgtctatatg ttgaccaact ggtagaccag gaggatctgt gtgctgattg 480
actctagtag gatctgtttg tctactgacag actgtagtag tgtctgtgtg ctgactgata 540
gatagactat agtaaaattt ggggtgttgc tgactaacgg tctaggggtct gtaagctgac 600
agtctgcctg ctttctgatt gtatccattg aagtgtatgt acattatggg aattctctgt 660
ctattaaatg tgtctaaca aggaaggaat taagcactcc acrtgttttc tttatagggg 720
agttctgtac actatgattt taaatagata tttcttatat agtagtgccc aaattctcat 780
tattttgtac aagataaagg ttatgcatca cttttatggg attttgtgaa ctcagctaag 840
ggaatgcctg ttcagagcct ggagttgtta cctttacttg aagtcactc atccagtcct 900
ctgcttttagg gcaggacttc agttccactg ttcatttctg aagcttctgt gtccccagct 960
```

383

```

taccctgttc tgraatgttg tattccattg gacagggctg ctatttttag tcagccatgc 1020
atttggtatt tacrcttaat ctagtaagta aaaatgagaa gaaaatttgg catttaaaaa 1080
ttgattttta gggttggcaa aagtattttt tccagtaagc ctttctactgg atatctgtga 1140
ccaatgttta cctacgcaat gtttttgtat ctgaattgct tatgtacgtt ttttattata 1200
ttgacctaac aagaagatca acttatgctg gtatgggtgat ggttttgcta tggcaaaatc 1260
aaagggctga tcatacatgg tgccctttgg gaagggggat ggtgtggggc tgagcacctc 1320
tggtttgaat ggggaatgggt cagattggga agcctaggaa gagagtctta ctgtagattt 1380
cctaggcact gctctgttga aataggaaca taagtcttta gcaacattct gatttaatcg 1440
ggtgacactg ataacaaagt atgccactca gatccattta aagtgtgcat aactgtattt 1500
gaaatgtgtt tttgtgtgct tgtgtgtaga atgggtaaat aaaattgttg agtaacttga 1560
acctaataaa aaaaaaaaaa aaaaaa 1585

```

&lt;210&gt; 548

&lt;211&gt; 1279

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 548

```

aggtatccag gccagctggg aaggacatga tgaggaaatt ggaaaaacat atgactgcak 60
agaagggccc catgattgtg ttggtatttg acgagatgga tcaactggac agcaaakgcc 120
aggatgtatt gtacacgcta tttgaatggc catggctaag caattctcac ttggtgctga 180
ttggtattgc taataccctg gatctcacag atagaattct acctaggctt caagctagag 240
aaaaatgtaa gccacagctg ttgaacttcc cacccttatac cagaaatcag atagtacta 300
ttttgcaaga tcgacttaat caggtatcta gagatcaggt tctggacaat gctgcagttc 360
aattctgtgc ccgcaaagtc tctgctgttt caggagatgt tcgcaaagca ctggatgttt 420
gcaggagagc tattgaaatt gtagagtcag atgtcaaaag ccagactatt ctcaaaccac 480
tgtctgaatg taaatcacct tctgagcctc tgattcccaa gagggttggg cttattcaca 540
tatcccaagt catctcagaa gttgatggta acaggatgac cttgagccaa gaaggagcac 600
aagattcctt ccctcttcag cagaagatct tgggttgctc tttgatgctc ttgatcaggc 660
agttgaaaat caaagaggtc actctgggga agttatatga agcctacagt aaagtctgtc 720
gcaaacagca ggtggcggct gtggaccagt cagagtgttt gtcactttca gggctcttgg 780
aagccagggg catttttaga ttaaagagaa acaaggaaac ccgtttgaca aagggtgttt 840
tcaagattga agagaaagaa atagaacatg ctctgaaaga taaagcttta attggaaata 900
tcttagctac tggattgcct taaattcttc tcttacaccc caccgaaag tattcagctg 960
gcatttagag agctacagtc ttcatttttag tgctttacac attcgggcct gaaaacaaat 1020
atgacctttt tacttgaag ccaatgaatt ttaatctata gattctttaa tattagcaca 1080
gaataatatc tttgggtctt actattttta ccataaaaag tgaccaggta gaccttttt 1140
aattacattc actacttcta ccacttgtgt atctctagcc aatgtgcttg caagtgtaca 1200
gatctgtgta gaggaatgtg tgtatattta cctcttcggt tgctcaaaca tgagtgggta 1260
tttttttggg tgttttaaa 1279

```

&lt;210&gt; 549

&lt;211&gt; 1389

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 549

```

ggaatgttag atcaccttaa caagaaggag ctccggggcc aactcaagat ggtggacagc 60
tttcacaggg tgagtctaca ttatgggatt atgtgcctga aacggctcaa ctatgaccgg 120
aaggacctgg agcggaggcg ggaagaaagt cagaccaga tccgagatcc ccacgcagaa 180
tgcacaggtg agctgccgct gggcccgag catgctgggc gtccccacct cgcagactgc 240

```

384

acgctccaac cgccscctcc acctmctctt tccaggcccg gcagcttctg gagaaggaat 300  
tcagcaacct tatctcctta ggcacagaca ggcggctgga cgaggacagc gccaagtctt 360  
tcagccgctc cccatcctgg cggaagatgt tccgggagaa ggacctccga ggcgtaactc 420  
ccgactcagc tgagatgttg ccccccaact ttcgttcggc tgcagcggga gccctgggct 480  
ctccggggct ccctctccgc aagctgcagc cagaaggcca gacttctggg agttcccggg 540  
cagacggcgt ttcggtcagg acctattcct gctagtgcag gcctccagggt gacctcactc 600  
ggacggaaga atcttccga ggctgggctg ttccctctcc tgcccgact gtggcctcgc 660  
cggggagagc gggcggggga gctcgcgcg aggactggac catctgtaca gaccagcggg 720  
agtgcgcgcg cccgcctcgc acagggccgg ggctggacc aaaccacatg aactggactg 780  
agagggggaa gaagcgggga ggaagaaatc ccgccccaaa cgtccgcttt ctttttctct 840  
actttgtaat ttattgatca gtttctgttg ggagacgggt gtcctttacc cgcgggaagg 900  
ggcgggggct tccctcccg gccgcctgcg gggagaggct gtcctctccc ctttttctct 960  
cccagtcgcg gggcccaagt ctctctctt cgtccgaaag gaggggagg gggactcgt 1020  
gctacaagcc tcgccccctg tgccactcag ctccgcccc cgcgctccg tcgccggtcc 1080  
cccggtcat ctgcgggcgg gktccctctt cctcccccg tgtctcgtgt ccccggggcc 1140  
tcaccgcccc ccgtgctgtg gccgtgtccg tgccccggg gtagggggcg cagaatggcg 1200  
cttcccttcc tctctggct ccgggggttg catgggagaa tctctttcc acgatgccgc 1260  
tgggcgacgt ggcgtggggg cagggggacg gtgggggagc cctcgcccc gactctcgg 1320  
cggctcccc gccccaggcg tcaactcagt atcacgggta aagagaactg tttcaaaaaa 1380  
aaaaaaaaa 1389

&lt;210&gt; 550

&lt;211&gt; 539

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (228)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (508)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (515)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 550

agaggccgcc aacatgatcc tgggtggatga tgacttctca gccatcatga atgcagtggg 60  
ggaaggcaag ggtatttttt acaacatcaa aaactttgtc cgattccagc tgagcacgag 120  
catctccgcc ctgagtctca tcaactctgt caccgtgttc aacctgccca gccccctcaa 180  
cgccatgcag atcctatgga tcaacatcat catggatggg ccaccggngc agagggtgagg 240  
cagggcggct gggagccctg tgtctcttta cctacctgcg gggcttcctc caggggctgc 300  
tggctgtgcc caaggctata gggatgaaca aatacagcca ctttccatca ggagtccca 360  
gaaaactgaa gtgtgttgca ctggagttag actgggagta gaaggcagag gaaaaagtac 420  
ctgggcccgc agagctgggt gaggatggaa ctttctgctt cctctggctg gatgctctct 480  
ctgggcaaac ctgcatgggt taattctnat gctttnaatt caagtcaccc agtcactgg 539

385

<210> 551  
<211> 1089  
<212> DNA  
<213> Homo sapiens

<400> 551  
gacactattg aaggtacgcc tgcaggtacc ggtccggaat tcccgggtcg acccacgcgt 60  
ccgcggacgc gtggggactg cttagaaata tagctgaagt gatcaccaca gccataaaat 120  
tgtttaagaa agattttatat aatgtttaca aatctggaat caaggatttt agctgaaatc 180  
ctttaagaga tattagagca agtatttaaat tcaggtattt tcaagtttta aaacttaacc 240  
tgtttaccta ctaaaaataa aatagctagt ttttttctgc atataaaagt tcattgaaat 300  
gatatgccct tatttgcaat acttttccca taaagtttta agtgtgaaag aattgtaatt 360  
tactagatat gtttggatg ggatattttg ttaggcaagt tttctttttt cttcttaaat 420  
tgcaataggc ttccaaaaag agtataattg tttcagaaca aattaactct tggcattata 480  
cgtctccctt tttctttaca gtattagtaa aatgaaaaat tgtacacttt ctgattttta 540  
cttcactaat gtaattactc tctcaagaag cttttaaaaat ttaaattacc atcacacaac 600  
ctttttatag taaagccaac atttgttctc tcaccaaacc ccatgccaaa ttcacatga 660  
agaaagctca gcataagtaa ttcaaatact gcttataatt ttagaggggg gtagaattta 720  
gtaaatattc cagccggtcg ttttatgcac aaggcttcag tcagaacata gaaaaaaaaa 780  
acattctgtg aatgaaatat tgtatgttca gattttataa aagacatttt taaaagccca 840  
atttacagcc gtatattttc ttatgatgta atttatgaaa aagatgtctg tactaacagg 900  
tgctgtaaca ctactgttgt tggattttat tgtttgggta taaatgtata caatatttct 960  
aagggaact atgtactgtg atgtaaaagt ctgggcaaaa tgtatataat cctgtatata 1020  
attatgtatt tgattataat tactgattgt aaagatttaa taaaatatgt aaatattcca 1080  
aaaaaaaaa 1089

<210> 552  
<211> 1938  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (555)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1521)  
<223> n equals a,t,g, or c

<400> 552  
actgtgtgca attttatttt gcctcagtga cagtcacttt acagccatat tgggtgcacat 60  
gcattagcaa aagargtgca tgccgcgtgc acgtgtgtgg gtgcggcaca gctctccgca 120  
gcaagaggta aacaagacaa gcaactacgtt ggttcaagtt gaagctggag gtcatttttt 180  
gccccgtgaa gctgagccct gaagaagaaa gtcacatgt atccatcttt gttacctttt 240  
tggatttgac gctgatccag atcctcctgg gaccttcaat ccgctgcttt tacaaggatg 300  
aaaaggattc tgatgacttt ttttgaactg tttgggcagg aatgctacag rgagaaycaa 360  
tttctgtgaa ctgagagtcc ccagggtgata atttgggtgtt tcacacacag gcagtttctt 420  
tttaaatgtg tgggtgctttt ttagtcawct ggctttgcaa acccyagtgt ttgaaaaaca 480

386

```

gggatgtagt tcagcagtggt ctgaataagg ctgatgactc agaatcatgc agtgcctggc 540
ttctcaggcc gccgncagcc gggactgctt taggcgcgaa cccacgcttc tgacctgtgc 600
tctgtctttg cagttctgca cggagctaaa ccagccgacc ctgcccaca tccgcaagtg 660
ggaagggggc ccgggggatgc tggaaggctg ttgttgctga gaagccctcg aatcagctcc 720
agaagggagc tgggtatgca ggattcctat gggacgcggc tgccggcatg gagctgagag 780
acgcgggttc acaggagagc tcgccaagca acgggcacgg gaagctggcg ggccccagcc 840
catacctcgg gaggttcaag gtgggaagtc acgacctgac ccttggttaac cttcacctgg 900
cagccctgac cctcctgggg agcgagaatc ccagcaagaa tcacagtgat ggccaccggg 960
tgggcagctt tgcacagacc ctacaggaaa ccctgaaagg agaaaaggat gtcattatct 1020
taggggattt tggccaaggg ccagagcagc aatgactatg atatcctgag gaaagaaaag 1080
ttccaccacc tgatccccgc gcacaccttc accaaccatca gcaccaagaa ccctcaaggc 1140
tcgaagtctc tggacaacat ctggatcagt aaaagcttaa agaaggtttt cacaggctac 1200
tgggctgtgg tgagagaagg cctcacgaac ccttggtattc cggataactg gtcttggggc 1260
ggggtggctt ctgaacactg cccagtgtca gccgagttct aactgaaaa ggactggagc 1320
aagaaggacg cccctcggaa cggcagcggg gtggccttgg agcgaagtga agccaacatc 1380
aagcacgagc gatgatgaca ccaaattccat gtgtccacc cgggaccag gagggcacag 1440
ccaaggaatg agccctgtgg ggtgacgctt cagggcagag ctgcctttta atttttatct 1500
tcagagcatc agcacttgag nccttgcccc acgccttctc tgtggaccat tcaggacctc 1560
cagtgggggt ggcgtgccag gcgcgtaccc caccagggtg gcaaagcaga aacctgcggg 1620
gagcggagac gccttttatc tctggatgcc acagacctga gcagcattgg gctggctgtc 1680
cgctgctgac tggatggcag cacaaggaca atatgagcag agggaggaga agaaggggtg 1740
ctcaggctgc gggccacagt ccagcagcgc cagaagcact catttctgac caccaggcta 1800
tgacgttctt ctgctcatta cagaaagctt ttaactgtga tcaggcagtc tgctcagata 1860
cattgagtgg cgatttttag ttttgttttg aaaaaataaa cagattaacc tgcaaaaaaa 1920
aaaaaaaaaa aaattact

```

&lt;210&gt; 553

&lt;211&gt; 1442

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 553

```

ggtccccgtc acgctgactt tccgtgcagt gctgtggtgc gaaaatgcct cgccgctcyt 60
ggtagacgaa gaggaagaca aacctacagt cgcttccaaa ctctagagtt ggaaaaggaa 120
tttcttttta acccctatct gaccaggaaa agaagaatcg aggtttccca cgccctagcc 180
ytcaccgaga gacrggtaaa aatctggttc cagaacagga gaatgaatgg aaaaagkaaa 240
acaacaagac aaatttcccg tttcccgga ggaggtgaag gacggggaaa cgaaaaagka 300
agcccaagag ctggaggaag acagagccga aggcctgmca awttaacytc tacctttaaa 360
atttaccaca gactattaaa actaataatc accatatgct gtggacacca cctattttct 420
ttgttggaag ggaccttacc tgtgtttcaa gctaccttca tgtcactgct cttgagggtt 480
tctgtgcttt gagagggatt tgggtgttta aaaaagtttc tagtatcaca tagaagctgt 540
ccttgagctg tcctatggaa gggtaatttg atactgacct tgtagctata tttttataat 600
ggtttttaat gtctgagcta gtgatttgcc tcaacaacgt aaacttccta atgattagca 660
cttaataatt gcatataaaa tgctttatta attaaacaag tgcacttgaa cattttaata 720
tttgtggtga gtaaatataa aggagtttat taattaaaaa aaattatgtc tgcagaatac 780
tttatattat ttgattacaa tgtattatct atggattttt tattctttcc ttataatga 840
atagttcggg tgcgttttgt ttactcctaa aaggtttctt tgcgtatttt ctaaatgtaa 900
tatctcgggg aaaatattag aaaagcacgt attagctgaa gaatgtaact ttagtccag 960
ctctgcagct tccttaaact taagaaaaag attgggccag tgacaagaat ttaaagacaa 1020
tgtccaagtt gacaattatt tttctatagt ccatacaaat taaataatct ggcaactctg 1080
gcaaatcgcc ttgtaaaatg cgtctcattt ttaacttgc tttcgttttg aaccgccctt 1140

```

387

```

gtaatcgctt gaaatcgcta gttctttatg cggtaggcgc cctgtgttcc gttattttca 1200
gtaggtgtca tttttatttg tattgccttt gttctgttcg ccgctgggtt taaaccagct 1260
tgctgtgtgc atctcagacg tcgggttgga cgtcctccgc tgtyttcag gaaagcgata 1320
gcctcaccta tttgaaacaa gccctgagag gaaacgcaga aaaacctgag tgtaaacaaac 1380
tccggaatgt cgctagctcc ttagtaataa aatgaatctc ttttggaaa aaaaaaaaaa 1440
aa                                     1442

```

&lt;210&gt; 554

&lt;211&gt; 1446

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (35)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (37)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (57)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 554

```

aagaactaaa acgactcact atagggaaaa actananacg cctgacagga aaccggncgg 60
gaattccccg gtgcaccac gcgtccgaaa ragaggtgga ggaggagggg gatgttgata 120
gtgatgaaga agaggaggaa gatgaggaga gtcctcggga gggcttgagg gctgaggact 180
gggcccaggg agtagtgagg gccggtggca gcttcggggc ttatggtgcc caggaggaag 240
cccagtgcct tactctgcat ttcttgaag gtggggagga ctctgattca gacagtgagg 300
aagaggacga tgaggaagag gatgatgaag atgaagacga cgatgatgat gaggaggatg 360
gtgatgaggt gcctgtacct agctttgggg aggccatggc ttactttgcc atggtcaaga 420
ggtacctgac ctccctcccc attgatgacc gcgtgcagag ccacatctc cacttggaaac 480
acgatctggt tcatgtgacc aggaagaacc acgccaggca ggcgggagtt cgaggtcttg 540
gacatcaaag ctgagtcact ggacctagct gtgcccccaa cctagattgg cagcaccacc 600
ccagggcaga ggactctctg ggcacccgct gtgcatggag ccagagtgcg gagccccaga 660
tccttttagta atgcttcccc tggctctgca acaggccccg tcacctcggc cgggccccgg 720
gctgaggtca gcctcactgc ctgcttattg cctctttctc agaatectct ttctcccca 780
tttgccctg ggctcagggg accaggtggg gcgggtgggg agctgtccgg tgctaccaca 840
ccgtgccctc agtgagacta ccacagcagc agccagggat ggccctgga gggtccccgc 900
cggagagtgc ctctccctc tgccatccac gtcaggtctt tgggtggggg accccaaagc 960
cattctggga agggctccag aagaaggtcc agcctaggcc ccctgcaagg ctggcagccc 1020
ccacccccac cccccaggcc gccttgagaa gcacagttaa actcactgcg ggctcctgag 1080
cctgcttctg cctgctttcc acctccccag tccctttctc tggccctgct catgtgactt 1140
tggcccttgg tttcttttcc agattggagg ttccaagag gccccccacc gtggaagtaa 1200
ccaagggcgc ttcttgtgg gcagctgcag gcccatgcc tctcctccct ctctggcagg 1260
gccccatcct gggcagaggg gcctggggct gggcccagag tccagccgct cagctgctcc 1320
tttcccagtt tgatttcaat aaatctgtcc actcccctt tgtgggggtg aacgttttaa 1380

```

388

cagccaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1440  
 aaaaaa 1446

<210> 555  
 <211> 1278  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (1228)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1235)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1245)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1252)  
 <223> n equals a,t,g, or c

<400> 555  
 ggctcggtttc agaaatgcct tgcagtgggg atgtctcata atgccatcag gtttgggcgg 60  
 atgccacagg ccgagaagga gaagctgttg gcggagatct ccagtgatat cgaccagctg 120  
 aatccagagt ccgctgacct ccgggccctg gcaaaacatt tgtatgactc atacataaag 180  
 tccttcccgc tgaccaaagc aaaggcgagg gcgatcttga caggaaagac aacagacaaa 240  
 tcaccattcg ttatctatga catgaattcc ttaatgatgg gagaagataa aatcaagttc 300  
 aaacacatca cccccctgca ggagcagagc aaagaggtgg ccatccgcac ctttcagggc 360  
 tgccagtttc gtcctgtgga ggctgtgcag gagatcacag agtatgccaa aagcattcct 420  
 ggttttgtaa atcttgactt gaacgaccaa gtaactctcc tcaaatatgg agtccacgag 480  
 atcatttaca caatgctggc ctcttgatg aataaagatg gggttctcat atccgagggc 540  
 caaggcttca tgacaaggga gtttctaaag agcctgcgaa agccttttgg tgactttatg 600  
 gagcccaagt ttgagtttgc tgtgaagttc aatgcactgg aattagatga cagcgacttg 660  
 gcaatattta ttgctgcat tattctcagt ggagaccgcc caggtttgct gaatgtgaag 720  
 cccattgaag acattcaaga caacctgcta caagccctgg agctccagct gaagctgaac 780  
 caccctgagt cctcacagct gtttgccaag ctgctccaga aaatgacaga cctcagacag 840  
 attgtcacgg aacacgtgca gctactgcag gtgatcaaga agacggagac agacatgagt 900  
 cttcacccgc tctgcagga gatctacaag gacttgact agcagagagt cctgagccac 960  
 tgccaacatt tcccttcttc cagttgcact attctgaggg aaaatctgac acctaagaaa 1020  
 tttactgtga aaaagcattt taaaaagaaa aggttttaga atatgatcta ttttatgcat 1080  
 attgtttata aagacacatt tacaatttac ttttaattatt aaaaattacc atattatgaa 1140  
 attgctgata gtatttgaag actgagtctt gtgtgtttcc caccctagcc ccagggcttt 1200  
 cttttttacc ccttttctt ctccccctncc tctnccatcc ctctnactct tntccccctc 1260  
 cttccttcct ttctttctt 1278

389

<210> 556  
<211> 2001  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (1979)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1991)  
<223> n equals a,t,g, or c

<400> 556  
aaaacaggct tggctggtct tgaaaatccg gcactcttagt gaacaacgtg rgaatgtcgt 60  
atgagtatcc tgaatacttt ttggatgttc ctgacttgga caatgtgatc aagaaaatga 120  
taaatattaa tattctttct gtttgtaaga tgacacaatt ggtactgcct ggcattggtg 180  
aaagatccaa aggggctatt ctgaacatct catctggcag tggcatgctc cctgtccac 240  
tcttgaccat ctattctgca accaagactt ttgtagattt cttctctcag tgcctccatg 300  
aggagtatat gagcaagggc gtctttgtgc agagtgtcct gccatacttc gtagctacaa 360  
aactggctaa aatccggaag ccaactttgg ataagccctc tccggagacg tttgtgaagt 420  
ctgcaattaa aacagtcggc ctgcaatccc gaaccaatgg atacctgatc catgtcttta 480  
tgggctcgat aatctcaaac ctgccttctt ggatttattt gaaaatagtc atgaatatga 540  
acaagtctac acgggctcac tatctgaaga aaaccaagaa gaactaagca ttgataactg 600  
cattgtaact tggccagatg ctccagcata tgcacgttca ctgcaaagca ccctactggt 660  
tttgaaaatc tgacctgttc atttcaatag ttattaacat gactaaatat tatcttaatt 720  
aagaggaaaa tagaagttgc ttttaggggt ttctgacata tattctggat actatccgag 780  
gtaattttga agtttaatat aaatgctcat atcaaagaa tatagaacta atattgtcgg 840  
gaacacctaa tagaaaggaa tactattata gcaaatcaca gaatgataga ctcaagcata 900  
aaacttggca gttttatctg cttcaaaatg ccattgatca ttattctctg attttctctg 960  
aaactgatta taaaaaccaa tgtccagcta ctcttttgtt tttgacactt gaagaaatgg 1020  
agatcgattt gatgtgttta taagcagaca cactgcaatt tacaagatc tctttacggg 1080  
tttataaaat tatcttccag tttgtacatt tatatggaat tgttctttat caagggtagc 1140  
taatgacatg aaaataattg tgaaatatgg aattatttct gacacatgaa gccactaaa 1200  
ctatgctttc ttataatgca tatttcttct cagtttaaat gtatgtaaat atcgaagcta 1260  
tatggtatga ttataaaga taaatgggcc aaagtgtaca ttgagactgg cagccatcta 1320  
tgggtaccat gaaaccctga ccagaaaaag tggcttgctt ggacaccag ctgcctttgt 1380  
ttctgcatta aaccaatatt gatcacacat atgacacagg ctagtcttat aaaagtaatg 1440  
acttcataga aatggcatta taatttttaa gttgatactc tacaggtagc tattgatata 1500  
attagtttta ataaaacatg ctgcaacctt ggtatacaac aaaaatacat ttctttggtg 1560  
attgaaatta aggccgtatt tacaatgact taatataaga ctgactttta tcctgttcca 1620  
taacttgtat ggagaactca ccaagaaaga attcaatact gtgaaatatg cagcaagaag 1680  
attggtcttt acctaggctg tgtttcctaa gctctgagtt ttcagcacca gtagatttgt 1740  
attaaaagaa aaaaaaatgg ggccttagct tctggctttt aattttgccg gctaaggaca 1800  
taaaacaaaa ataaacaaac aaaaacaaat agccatctgc tatcagcatc attatgtaaa 1860  
agaaaatata ttttagcccc taaaattagg aagaatgtaa tctcagaata aagggtgtca 1920  
tttaagttga ataaatatat agctttatga aaaacaaaaa aaaaaaaaaa aaaaaaatnt 1980  
cctgcggcgc ncaagggaat t 2001



390

<210> 557  
<211> 2524  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (308)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (596)  
<223> n equals a,t,g, or c

<400> 557  
ctgctaaaaa aaaaaaaaaa atgggggccc aaataaaaaga atatatagta ctcacctcag 60  
ttccttccat aagaagtggg tggtttaatg attgttaagc cattttttgcc tgtgccggga 120  
gcatggaggg ctgagatgtc racaggcagt gggaaacaaa tgccctccta agccacaagg 180  
cgtgcgccag attagtaggc aactccattt taagaagctg cctttttcac aaaactggaa 240  
gaaataaaaag cggttggaat aaacaagtta aaagtcttta atgcaaaaag taattgaaag 300  
gcagtgcntc cattttgggtg tactttcttg gaagaaagta taaaattgac cggcatcatg 360  
agagacggaa gatgccgtgt tctcagccaa acaagcaact ctttccccgc cagcactgtc 420  
gggtggggtc aggccagctt ttaaacactg gggactggat cacagaaaaa cagtgggttt 480  
ctgtccctgg gaaatgaata ggcacaaaga cccacttggc tgtgggcaga ctactcttca 540  
ataagatttg ggtgggagga ggaacattcc ttttgctatt ttgagctgag acaatntaaa 600  
tattcaactg tgccatgcat aaagcattga attctcaggg cacctcttct tccccctacc 660  
ccttttaagg ccateccctc cattaataat aatccaggta gttgtgaaaa tctgtcttct 720  
atctgatccc ttcttagttt ggcttttcat cccatcagaa caagtaaagc taggcgccac 780  
agctcttctg agtactgtct ccctcacggt gaatgagcct cctggtgttt cgtccaagaa 840  
aagaaagggg gtcactggaa ccacagccct ttttcatttt ataaactgcc tcttcatgtt 900  
gcctgtctaa gtttccacct agaattgcta tcaactgtggc tctttctaaa aatctttctr 960  
tttaactggg tcaactgaaat tagtcataga aaacttgtga tttggtgaag aggcattcct 1020  
tgtaataacc aaatgacttg ggatgggtgt catagcaagg gcagtgttac acttaygagg 1080  
actgtctcta gcatccagga agtctctggg tctgagggat ggaaagtctt tctgtctatg 1140  
aatgagagtg gactcttccc ctcaccccca actgaaacca caaacaacca gaatcttctg 1200  
gaattctgac ttagagtctg tgttatagaa gaccttgttg ctatggaaca tgaaactgtg 1260  
tgtcagatgg agagatcccc ttaacctaag agccttaaat agccctgaaa gtacactggg 1320  
acggttttgc atggaattaa aattggaagt gaatatTTTT aggtgctctt gaagctttct 1380  
ggggactcaa aattatcaaa agtcaggggac agtccggagg aagagcgtct gcaaaactgg 1440  
gttcctagaa gtatagacgg acttagcttt ttgtagaatt tgggtaggag cagcgccctc 1500  
tgagagcaga atggcctggc gtggccagtg cttcccggca gcacgcagct ctgcggcctc 1560  
cagaattccc ctgttctgag cttgatgccc ctgacctgtc ccctacctac ttcctcccc 1620  
cctctctagc cctctcacag gggtgattgc tacctctctg ttttcttggg cctaggcaag 1680  
tttttagagga gttcccaagc attgttatga ggccagtgtg ctcgctgggc tgggcgggat 1740  
ggcctgggct tgtgtgtggc ctgagggctc tcttggggcc ttctcttttc ccagtcacct 1800  
ttggagccac agaagcagtg cactcattgg atgtctgttc ttaacacagc ttctctttct 1860  
acattaaaaa aaatcattat tgcattttgg aaagcagtgc tcatcaaaag caacttttaa 1920  
aacctatttt attgttctt taaatgttct ctcctgctga aactgccctg gagaggctat 1980  
ctgctgtctt tccatttacc cacatcaggt tattctccat gtcactcagt ggagatgact 2040

391

ccagatgtgt ttaaagactg gacaattcac ctatactgtg taggaaatta cctccttaat 2100  
 tacctggtag aattgtcagc agacatgttc atccgatgat agtactgcag ttttctatta 2160  
 ataatttgca gacttttata taacctgcac tcatgtacag attattaaaa gttttaaaat 2220  
 gtaactgac agtattgac aatcattgtc ttgatttttt ttacacagcg atatttctaa 2280  
 tcatattttt taaagccaag agaactgggt gaatgaatgt ttattttcct gaaggatatt 2340  
 ttaagataaa gcttcctaata ggcgtgtaaa ctttgcataat gtatgtagtt tgatacatat 2400  
 tgtcacattt gaaaaatcttg tgggttgtaa ctgggtttat acaaaaatc gaatagtggg 2460  
 aattgtataa ttacaatcat gtaattaaaa gtattaaccc aaaaaaaaaa aaaaaaaayt 2520  
 cgag 2524

&lt;210&gt; 558

&lt;211&gt; 2667

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 558

gagaaataat aatatagctt tatagaattt tccatcttgt attaaaataa tcacatgtac 60  
 atcattgtaa ctcaagtccat aacataagat tttgtacaac aatttctttt tgtgtgctgg 120  
 catcattaag gtttagtctg cccagatcac ctattagtag ctaatttata tattctgaat 180  
 taaaattatc tgttaattta aaaacatttt atctattgtc tttcaaaata gtattaactg 240  
 aggggttttt tgtgtgtgtt tttctatttt gcttggcttt ttgaacatta ctggactctc 300  
 gttttagaag gaaaaacctt tcagctctac tctcacaatc ttatagcttt gtttgaacat 360  
 gccaaaaaac caggattagc tgcccatatt caaactcaca ggtttccaga ccgaataacta 420  
 ccaagaaaat tcgctttaac aacaaagatt cctgatacaa aaggctgcca caaatgttgc 480  
 atagtcagaa acccttacac gggacataaa tacctctgtg gagctttaca gtctggaatt 540  
 gttttacttc agtggatga gccaatgcag aaattcatgt tgataaagca ctttgatttt 600  
 cctttgccaa gtcctttgaa tgtttttgaa atgctgggtg tacctgaaca ggaataccct 660  
 atgggtctgt tagctattag caaaggcact gaatcgaatc aggtagtcca gtttgagaca 720  
 atcaatttga actctgcac ttcattggtt acagaaattg gtgcaggcag ccagcagtta 780  
 gattccattc atgtaacaca gttggagaga gataccgttt tagtgtgttt agacaaattt 840  
 gtgaaaattg taaatctaca aggaaaatta aaatcaagta agaaactggc ctctgagtta 900  
 agttttgatt ttcgcattga atctgtagta tgccttcaag acagtgtgtt ggctttctgg 960  
 aaacatggga tgcagggtaa aagcttcaag tcagatgagg ttaccagga gatttcagat 1020  
 gaaacaagag ttttccgctt attaggatca gacagggttg tcgttttgga aagtaggcca 1080  
 acagaaaatc ctactgcaca cagcaatctc tacatcttgg ctggacatga aaatagttac 1140  
 taagcaacag aaactgatct caaatgacag gaaaatgaat atactccatt gaaaggaaaa 1200  
 ataaggaaat tcaatacaaa ctgcactatg atttgcttta actattatgg gttatattgc 1260  
 aaatgatctg tacttttagg tagaattcaa tattttctgc agctggaaac agctagtcta 1320  
 tctcttgcca ctgtgtggtg gttatatcaa gtttgcttaa taaaagctat gagacaaata 1380  
 gtcctctagt tccaggaaac acagtctttt tttaaaaaaa acaatgtttg taacaagggt 1440  
 gccatgggat ttttagataa ctctgtatta tcttaagaga ggtaaattta gtgatcattt 1500  
 tatatcatgt cttattcctt cttaatgaac ataatttgtt aaattctcaa gcaagggttt 1560  
 cacttttata ttggccattc tgtatgtttt tgtaaaacag aatattttaa cttattttat 1620  
 taatctcttg ctggagtggg gtaatgtatc taacttttag caaaggaggg ttgcagagca 1680  
 gcttaattt tttttataat gtataagaat tttgtttatc ttttaagagt agtaaaagta 1740  
 tttgagtgtt tgggggttca acacacacat gcaattttgc ttaacaaaag tattttataa 1800  
 tacagtttca tacagaatta ccttaaaagg gactcttatg ttttcaacta cagatagttg 1860  
 taagggatca tacagaagat attgatgata gttgaaatat tcttagaagg ggtgtgtatg 1920  
 tctagctgtg tctaccatgt gtatgtattc ttgacaagca gtataaaata cctgtgattt 1980  
 ttctttacat tagggataat gcataaggaa ttaattctca tatatattat catcccta 2040  
 gtagcagggg gaagtattta attgcccatg atatgtattt tactttact atgccagaga 2100

393

```

ttgccgtgag tttggacggc acccctgctg gcgatagca agactctgtg gagtttgttc 1800
agtggtagcg tgtccaagca aacagcagaa tgcaactttc taaacagccc caagcaaaca 1860
gcagaattca acttttttaa caataaacac catcaacctt attgacttta ttgtccctta 1920
aattatattg actgttgtga ttccatcaag tttgtacact cttttctctc cctgttttgc 1980
agcaacaaat tgcgaagtgc ttttgtttgt ttgttttctg ttggttaaag cttattgcc 2040
tgctggtgag gctatggaga ctgtctggaa ggcttggaat ggtttattgc ttatggtaaa 2100
atgtgctga tttcttacag gcagcgtttg gaaacctttt attatatagt tgtttacata 2160
cttataagtc tatcatttaa agacatgtac tgaaacaaat gtatttgttt cataagcatc 2220
ttcctgtaat ctattataaa attgaaatta aatatagaga atgttttaac aattttttta 2280
aaatttgtca atcattttta atagtctttt ttttataaaa agaaaaagga atttaaggac 2340
aggcagtagt ctctttttaa atttattcac aaaacccatt aactgcacag ttgctattag 2400
ctgcctgttc taaaacgata gtctttttat tgaaacacaa ataaactttt ctgtaatat 2460
ttatgggtata taaagagact ttaattgttt gacttgttta acttggcact gttagttttt 2520
attaataaaa cgcgcatggg catttttaam aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2580
aaaaaaaaa aaaaaaaaaa aaaataa 2607

```

&lt;210&gt; 560

&lt;211&gt; 1837

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 560

```

ctggataacc taccagggat tcctttccca gtggacgctc acgacttatt tagatgtaca 60
gcggtgcttg gaatatttgg gctatctagg ctattcaata ttgactgagc aagagtctca 120
agcttcagct gttacagtga caagagataa aaagatagac ctgcagaaaa aacaaactca 180
aagaaatgtg ttcagatgta atgtaattgg agtgaaaaac tgtgggaaaa gtggagtctc 240
tcaggtctct cttggaagaa acttaatgag gcagaagaaa attcgtgaag atcataaatc 300
ctactatgag attaacactg tttatgtata tggacaagag aaataacttg ttgtgcatga 360
tatctcagaa tcggaatttc taactgaagc tgaratcatt tgtgatgttg tatgcctgg 420
atatgatgtc agcaatccca aatcctttga atactgtgcc aggattttta agcaacactt 480
tatggacagc agaatacctt gcttaatcgt agctgcaaag tcagacctgc atgaagttaa 540
acaagaatac agtatttcac ctactgattt ctgcaggaaa caaaaaatgc ctccaccaca 600
agccttcact tgcaatactg ctgatgcccc cagtaaggat atctttgtta aattgacaac 660
aatggccatg tatccgcacg tgacacaagc tgacctcaag agctccacgt tttggcttcg 720
agcaagtttt ggtgctactg tttttgcagt tttgggcttt gctatgtaca aagcattatt 780
gaaacagcga tgatataaaa agaaatactg tccctaccaa aaacaaatac ttttatgtac 840
attctgaatg cttaaagtgc tgctagaatt attgagatat ttatacatgc agagtactt 900
tattaatatt tgtaattcat gcataagagt attttaatga tagttataac tgcagtattg 960
gctagcatat ggaaagaaaa cagctaacag ccaaaactaa atggctaaat tccagaggcc 1020
aaaagggaat attttgtaaa tatatgtaca tattcaggca agatatggtc tccaagctg 1080
agttctagaa atgatgtttc tagacatttc taagtggat ttgttagtgc cacttggtc 1140
actcttctag gtttaagtta gccagagat tgtatttact catggatcac tttatttatt 1200
tcacatttac tcagaatgat cctttggggt ctataaggac ataaggta atttgccatt 1260
gtctctccat ttttaaaaac atacaagtca gtgtcagctt accaactga cattttttca 1320
gtcagttgtg gtaggccagc cttgaagcca tcgcacagtc tagaaacttg ttagctgag 1380
tgtgcagctc acctttaagg gtgaagttag gtaaaagcaa ttagcagagg cgttatctat 1440
gtgattatgt tgcttctctg tcagtatgtt gaattttata gccctttcaa tgaaataaaa 1500
aaaaaatttg tatattacca atgtttttag tttaaataaa gagtcaccct tactactgtt 1560
gaatttcac ccaagtgtaa atcattctat aatggctgtg tctgttatag tatattacag 1620
taactgcatg tgcaccaag tgttctatat caggctagga taacctagag gcagtaattt 1680
tttaaatgat aaaataaatc taatgaatat aaactctcat gataaaccta ttttttccat 1740

```

394

catcagcctt ttcaagtatt taaataaata actgctgtgt actgtgatct tgagttcttt 1800  
tgtcatctaa agtaaatatt tctgtacaga taaaaaa 1837

<210> 561  
<211> 1682  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (3)  
<223> n equals a,t,g, or c

<400> 561  
ggngcagcag cagccagggtg tggcagtgac agggagggtgt gaatgaggca ggatgaactg 60  
gacagggttg tacaccttgc tcagtggcgt gaaccggcat tctactgcca ttggccgagt 120  
atggctctcg gtcactctca tcttcagaat catgggtgctg gtgggtggctg cagagagtgt 180  
gtgggggtgat gagaaatctt ccttcactctg caacacactc cagcctggct gcaacagcgt 240  
ttgctatgac caattcttcc ccatctccca tgtgcggctg tggctccctgc agctcatcct 300  
agtttccacc ccagctctcc tcgtggccat gcacgtggct caccagcaac acatagagaa 360  
gaaaaatgcta cggtctgagg gccatgggga cccctacac ctggaggagg tgaagaggca 420  
caagggtccac atctcaggga cactgtgggtg gacctatgtc atmagcgtgg tgttccggct 480  
gttgtttgag gccgtcttca tgtatgtctt ttatctgtct taccctggct atgccatggg 540  
gcggtctggtc aagtgcgacg tctacccctg cccaacaca gtggactgct tcgtgtcccg 600  
ccccaccgag aaaaccgtct tcaccgtctt catgctagct gcctctggca tctgcatcat 660  
cctcaatgtg gccgagggtgg tgtacctcat catccgggct tgtgcccgc gagccagcg 720  
ccgctccaat ccaccttccc gcaagggtct gggtctcggc caccgcctct cacctgaata 780  
caagcagaat gagatcaaca agctgtgag tgagcaggat ggctccctga aagacatact 840  
gcgccgcagc cctggcaccg gggtctgggt ggctgaaaag agcgaccgct gctcggcctg 900  
ctgatgccac ataccaggga acctcccatc ccacccccga ccctgccctg ggcgagcccc 960  
tccttctccc ctgccgggtgc acaggcctct gcctgtctgg gattactcga tcaaacctt 1020  
ccttccctgg ctacttccct tcctcccggg gccttcttct tgaggagctg gaggggtggg 1080  
gagctagagg ccacctatgc cagtgtctca ggttactggg agtgtgggct gcccttggtg 1140  
cctgcaccct tccctcttcc ctctccctct ctctgggacc actgggtaca agagatggga 1200  
tgctccgaca gcgtctccaa ttatgaaact aatcttaacc ctgtgctgtc agataccctg 1260  
tttctggagt cacatcagtg aggagggatg tgggtaagag gagcagaggg caggggtgct 1320  
gtggacatgt ggggtggagaa gggaggggtg ccagcactag taaaggagga atagtgttg 1380  
ctggccacaa ggaaaaggag gaggtgtctg ggtgagggga gttagggaga gagaagcagg 1440  
cagataagtt ggagcagggg ttgggtcaagg ccacctctgc ctctagtccc caaggcctct 1500  
ctctgcctga aatgttacac attaaacagc acccctgccc tctgtcctc ttaccacat 1560  
ccctctcac tgatgtgact ccagaaacag ggtatctgac agcacagggt taagattagt 1620  
ttcataattg gagacgtgt cggagcatcc catctcttgt acccagtgtt cccagagtcg 1680  
ac 1682

<210> 562  
<211> 1694  
<212> DNA  
<213> Homo sapiens

<400> 562  
gggccaagat ggtgaaaccc cgtctctact aaaaatacaa agaattagct gggcgtggtg 60

395

```

gcggggcgcct gtaatcccag ctactcggga agctgaggca agagaatcgc ttgaaccag 120
gaggtggagg ttgcagtga ccaagatcgc gccactgcac tccagcctgg gcgacagagt 180
gagattccat ctccaaaaaa aaaaaaagaa aaaaaaaga aaagtctctgt gttgatgtac 240
agtttctcct aagaagaagc gaggtgggtg aattttggaa gcacttcttg aatcggatta 300
acccatgctc ttattgaatt ttttcattctg ctctgttttag tttgatatta aagcaaaatt 360
aagaggtctt agtttttctt atagaacttt taatatgtca aaagctatat tgtctaaatt 420
tcagtactta agcaaatact gagtagtggt ttaaattcag aaatagagct tctattatga 480
acacatgaga atgatttttt tctcttaatc attattaagg aaatatttta atttcatggg 540
catataatgg tgataagtaa tacctgattg tttccttttc tgttctagta actcagagga 600
gatactgtgt ttatttgtga tagcaaatc ctaaataaac attaggcaag tggatcatt 660
atcaggccag ctgcagcctc ttgccttgac ctgcattcct agaatttctt tgttgctgta 720
attcttgatt aagtgcctt gactttcatt ttgtaatttt gctaatacgc agcaaatca 780
cttgcagtac gttactgcca aatatgaagg cagttgaatt attatgagtg attgtggcag 840
aggtttggc catggtgaaa actttgatgt ttgtctgtgt tcattggatc catcttttta 900
aatgacatta ccatgagctt gttgtcaaac ctaaataatct ttgtttgaat ttaaaatggg 960
actctatatt gttgtagttc aggtcttcat tgactaagag attgagagaa atctgacata 1020
agaaaatatt gttttcactg caggaataaa gaggaagtaa cagtgaatcc aatatagttc 1080
atattgttat tgtccaatca tcaagttaac taagcattat cagattacgt ttatttctca 1140
tacatatgga tattaactta aggtaaaaaa gctggatgtg aaggatctga aaaggcatta 1200
atattgttac taattctata aacatgtatt aataattgca gtattattaa atacagatgg 1260
actcaatgta cttttgaaaa gaccactaat ttagaaaaa aagctaagtg cagtcattac 1320
aagaagcaaa gaaatactta agttagaaaa aaattaaat gaagggatgg tctaagtttt 1380
cttcatgctg gaacaaatgt taaagaagca gtgattgctt acaatgtatg tgataaaata 1440
atacctttca caatcaaaat tttaatagta aatataagat aaaatttata ttaaataatg 1500
aaaacgtatt tgtactgaat ttagtcacta gagaacatcg taacaaaata catgaaacaa 1560
aagtagccag aaatgttaga acaggtggaa atgtatacat tatttgatgg tttgtttttt 1620
tatggaaata aacaacatac atagaattaa atggtgatca aaaacatgga aaaaatactt 1680
cactaaaaaa aaaa 1694

```

&lt;210&gt; 563

&lt;211&gt; 949

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (867)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (874)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (914)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 563

```

tgcgcgccga gtctgtccct gcgcacccct gtggctttcc tgcaccactg cccccacca 60

```

396

```

ggatgatgga gagtaagatg attgctgcca tacactccag cagtgcagat gccaccagca 120
gttcaaatta tcattccttt gtcactgctt catccacctc tgtggacgat gcattgcctt 180
taccacttcc tgteccacaa cctaagcatg cttctcagaa aacagtttac tcctcctttg 240
ctaggcccca tgtcaccact gaaccctttg gtccagataa ctgtttgcat ttcaatatga 300
ctccaaactg ccagtagcgt cccagagtg tacctcccca tcacaataaa ttggagcagc 360
accaagtgtg tgggtgccagg tcagagccac cagcctccat ggggtcttctg tataacacat 420
atgtggcccc aggaagaaac gcactctggac accactccaa gccatgcagc cgggtcgagt 480
atgtgtcttc tttgagctcc tctgtcagga atacctgtta cccgaagac attccaccgt 540
accctaccat ccggagagtg cagtctctcc atgctccgcc gtcttccatg attcgctctg 600
ttcccatttc acggacagaa gttccccccag atgatgagcc agcctactgc ccaagacctc 660
tgtaccaata taagccatat cagtcctccc aggcccgctc agattatcat gtcactcagc 720
ttcagcctta ctttgagaat ggccgggtcc actacaggta tagccatat tccagttctt 780
ctagttccta ttacagtcca gatggggccc tgtgtgatgt ggatgcctat ggacartcca 840
gttgagaccc tttcaacggc tttccantcg agantttgtt ttttacaatc ctaggttgca 900
aggaaagagc tttntacagt tatgctgggt ttgggtccag gtccccggg 949

```

&lt;210&gt; 564

&lt;211&gt; 503

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (15)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (20)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (500)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (501)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (503)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 564

```

aaacagggag aaganaggan agaaaaaggg ggattagtta tatcaaaaag cctggaaagg 60
tgggaatgga ccaaaaagat gggactcctc ctttattcca gcatggaggg ttttaaagg 120
aggatttctt ttttcctgcg acaaaacgtc ttttcacaac ttaccctgtt aagtcaaaat 180
ttattttcca ggaatttaat atgtacttta gttggaatta ttctatgtca atgattttta 240

```

397

```

agctatgaaa aataataata taaaacctta tgggcttata ttgaaattta ttatttcta 300
ccaaaagtta cccacacaaa aagttactga gcttccttat gtttcacaca ttgtatktga 360
acacaaaaca ttaacaactc cactcatagt atcaacattg ttttgcaaactc actcagaata 420
ttttggcttc attttgagca gaatttttgt ttttaatttt gccaatgaaa tcttcaataa 480
ttaaattatg taaaaagtcn nan 503

```

&lt;210&gt; 565

&lt;211&gt; 374

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (357)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 565

```

gtctgagtgg atggacactg cctcttagaa ctagaactta gaactktatc ttgaaaatgt 60
accactgttg cagaagctcc tcacagagta tgtgtcaggc atttttaacc tgctaaaggc 120
aagaagaagt gttcaccaca tagttgcaaa ggtcttcaac ttgccacagc caacagaaaa 180
atcaaaatga ttgaaccctt tgggaatcag tatattgtgg ccaggccagt gtattctaca 240
aatgcttttg aggaaaatca taaaaagaca ggaagacatc ataagacatt tctggatcat 300
ctcaaagtgt gttgtaactg ttccccacaa aaggcaagag aattgtcctc tctttgnttc 360
ccatagcatt ttgg 374

```

&lt;210&gt; 566

&lt;211&gt; 1652

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 566

```

agcttatacc agctgaatgg cagccttgcc taatccacct acaacaagaa tttcttaagc 60
tttcttttat ttgcatgaga gagccactac caaggcatgt tttgttatgc tgaaactggg 120
ctgctgcata ctgctaaatg gcacctctgg gattggccta cctggggatt tcttggtttg 180
tgaaaacagg agaggagaaa tatctcatalc aagtgaagg atactggaga gagaaattac 240
ccatttctaa aaaaaaacca cactctgtcg tatctgtgtt aatgttttct agcatgtact 300
ctggtttcaa cagacacaaa tttatatgtt aaccagttt tcttgccgtt ctgtaagtgt 360
tttattctta gtgtgatttt tttccattgg gatgtttttg attgaacttg ttcattttgt 420
tttgcttggg aggaaaataa acaattttac ttttttcctt taggagcatt atgagcatta 480
tgtcagaata gaatagaatt ggggttcgat cttaacaggc cagaaatgcc tgggttttwt 540
tgggtttgtt ttgtttttgt ttttttatca aatcctgcct gactgtctgc ttgttttgcc 600
taccatcgtg acatctccat ggctgtacca ccttgctcggg tagcttatca gactgatgtt 660
gactgtyraa tctcatggca acaccagtcg atgggctgtc tgacattttg gtatctttca 720
tctgaccatc catatccaat gttctcattt aaacattacc cagcatcatt gtttataatc 780
agaaactctg gtccttctgt ctggtggcac ttagagtctt ttgtgccata atgcagcagt 840
atggaggggag gattttatgg agaaatgggg atagtcttca tgaccacaaa taaataaagg 900
aaaactaagc tgcatgtggg gttttgaaaa gggtattata cttcttaaca attctttttt 960
tcagggactt ttctagctgt atgactgtta cttgaccttc tttgaaaagc attcccaaaa 1020
tgctctattt tagatagatt aacattaacc aacataattt ttttagatc gagtcagcat 1080
aaatttctaa gtcagcctct agtcgtggtt catctctttc acctgcattt tatttggtgt 1140
ttgtctgaag aaaggaaaga ggaaagcaaa tacgaattgt actatttgta ccaaatcttt 1200

```

400

```

tcctctgcag ggagaccatc cagcccaagc tctgggaggc acagtccatt gagtgggagg 240
aggccgcggg tgctgagccg gggaggggtgc tcggagtcca tccatccctc agacggcaag 300
tcccacaggg tccaacccac ctgaaacctg cctgcacggg ggaagtgggtg gaggtggaca 360
ctcctagggg cttttctaaa gctagactcg cagctccttg ctcaggaaaa ttaaactatt 420
cacgtttcag atcaagtgtt gacagtcacc agtcaggagg agttcttaaa gagttttatg 480
ttgactgaat attgcacatt gagtcccat tgagtccctg gtgggaaaag tccacaattt 540
cccattgata gctttttact gttgtgaaaa agggaagcgt cagcacacaa aagcctgcat 600
gaccgctgct tcggagaagy tctcgaccct aactgcagtc actgttactt ggatcagatc 660
aagcgtagtg actttttggg attcagtggg tattctccac acttcgtagc catttcaacc 720
aactctgagc aaaaaatgca gccatcctct atgcagcaag ccctgcccag tcagtgacct 780
tactggacag atccaaggcc agccctgggt tccctgctgc agccaccgtc ctgacgttca 840
tcggagcagg ccggggctgg ccttcccggc acaagtggct gttctgacag gccccagtt 900
tgtcccatct gaactgctgg gaggtttccg ggtggccaga ggagcaaagc tgccttccaa 960
gtgcctgtct gtgcctggga gaacagagca ggagcgctgt gcggtccacc gcgcagtga 1020
tggcgattcc aggcgctgaa caactccctt ggacccttgg gcctgcatct gactcccagc 1080
tgcagagtca gaagctgagt ccaggcaact gcttggccac tcccgatcgc tctcctctgg 1140
acaccgggtt accaaagtca gcaaagaaga tgcggtaatc gccgcctgat ctccacatgg 1200
tgaacacaac actcccacca acacctcctt gactggctcg tcttcagcac cgggggtggg 1260
caggcagggt tctgtgtgtg acragaattg cacaggctaa acacaaacac ggaaccagag 1320
tgagaacacc tctctcacgg sagcccaggc tgctccctac caggtgacgg agcgcgccgg 1380
ggctgtgggt gccaggggct gagtgcctag gactcgtcat gagtggggat ccccacgttc 1440
ctgtcactgc tgtcaaacag aaggtaaaca gtcttatgaa tgtatttcct taggaaaact 1500
tgtaaaaact tttattagga tatctattta atactgaact ttggcctact ttgtgataga 1560
ctataaaca attgaggaaa tctactattt tcaattctgt attttctcaa aaataatttt 1620
gttacagagt tcaatatact gtgtaccatt gatcttctat tgtgaaagca aagaatttca 1680
tcaaaatatt ttaaattatg agtgaaaatt gtgtatgtta attttgagc tataatatta 1740
atcaaathtt gtgtaattct aatcacaaaa tgacgtgcct taagtgcctt tccagctgtg 1800
ggttggcagt gtccagacag ggagggccca tcaccgaaat cctgaacgat tactagacca 1860
attctattaa aaacatttca aggcattttg ggtgcaaact ttgtttataa aagagaaata 1920
tccacctatg agaattttaag gagacgtctc ctgtaggcag acatcgctct gcccaaaaat 1980
tagtactgac acatgcgtgt gtgtgcgctg tggtgcgtgca cgtgctgttg 2040
ctgcccttcc tagctggtgt gaggaagccc ggacgcgtgg gtcg 2084

```

&lt;210&gt; 570

&lt;211&gt; 982

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 570

```

ggcagcagct tacagacgct gccagcatcg ccgccgccag aggagaaatg tctgaagtaa 60
gacctctctc cagagacatc ttgatggaga ccctcctgta tgagcagctc ctggaacccc 120
cgaccatgga ggttcttggc atgactgact ctgaagagga cctggaccct atggaggact 180
tcgattcttt ggaatgcatg gagggcagtg acgcattggc cctgcggctg gcctgcatcg 240
gggacgagat ggacgtgagc ctcagggccc cgcgcctggc ccagctctcc gaggtggcca 300
tgacacgcct gggctctggc ttcactctac accagactga ggacatcagg gatgttctta 360
gaagtttcat ggacggtttc accacactta aggagaacat aatgaggttc tggagatccc 420
cgaaaccccg gtccctgggtg tcttgcgaa aggtgctgct ggcgctgctg ctgctgctgg 480
cgctgctgct gccgctgctc agcggggggc tgcacctgct gctcaagtga ggccccggcg 540
gctcagggcg gggctggccc ccccccatg accactgccc tggaggtggc ggctgctgc 600
tgttatcttt ttaactgttt tctcatgatg cttttttata tttaaacccc gagatagtgc 660
tggaacactg ctgaggtttt atactcagggt tttttgtttt ttttttatc cagttttcgt 720

```



401

tttttctaaa agatgaattc ctatggctct gcaattgtca ccggttaact gtggcctgtg 780  
cccaggaaga gccattcact cctgcccctg cccacacggc aggtagcagg gggagtgtgtg 840  
gtcacacccc tgtgtgatat gtgatgccct cggcaaagaa tctactggaa tagattccga 900  
ggagcaggag tgctcaataa aatgttggtt tccagcaaaa aaaaaaaaaa aaaaaaaaaa 960  
aaaaaaaaaa aaaaaaaaaa aa 982

<210> 571  
<211> 872  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (865)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (867)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (870)  
<223> n equals a,t,g, or c

<400> 571  
gaagcaccct taggatacca ggaccctgtt tcccttcgga gaagacacac aaccatgacc 60  
ctcagcctgg ggaccccaac tccaggccct ccagcccaa acctgcccag ccagccctga 120  
aaatgcaagt cttgtacgag tttgaagcta ggaaccacg ggaactgact gtggtccagg 180  
gagagaagct ggaggttctg gaccacagca agcgggtgtg gctggtgaag aatgaggcgg 240  
gacggagcgg ctacattcca agcaacatcc tggagcccct acagccgggg acccctggga 300  
cccagggcca gtcaccctct cgggttccaa tgcttcgact tagctcgagg cctgaagagg 360  
tcacagactg gctgcaggca gagaacttct cactgccac ggtgaggaca cttgggtccc 420  
tgacggggag ccagctactt cgcataagac ctggggagct acagatgcta tgtccacagg 480  
aggcccccacg aatcctgtcc cggctggagg ctgtcagaag gatgctgggg ataagccctt 540  
aggcaccagc ttagacacct ccaagaacca ggccccgctg atgcaagatg gcagatctga 600  
taccatttag agccccgaga attcctcttc tggatcccag tttgcagcaa accccacacc 660  
ccagctcaca cagcaaaaac aatggacagg cccagaggst gaagcaaaca gtgtcccttc 720  
tggctgtgtt ggagcctccc cagtaaccac ctatttattt tacctcttcc ccaaacctgg 780  
agcatttatg cctaggcttg tcaagaatct gttcagtcct tctccttctc aataaaagca 840  
tcttcaagct tgtaaaaaaa aaaaanantan aa 872

<210> 572  
<211> 733  
<212> DNA  
<213> Homo sapiens

<400> 572  
gcctgcgcgg actccccgct tagtgggcgg agttgtgccg cgtctgatgc gcagttccct 60  
ttatagcgcg gcaagccgaa tcctagaggc taaccgggca ggtgggaggg agaaagttgc 120

402

```
tttctgcacc aatagctgag gcgttcaggg ttgtccaggg acgctaccct cacgtgtctg 180
gttccgagtg ctgcgttcgg ctgtgctggg aagttgcgta gacagtggcc tcgagaccct 240
gcctgcctga ggaggcctcg gttggatgcg aaggagctgc agcatccagg ggacaagatg 300
ccaactggca agcagctagc tgacattggc tataagacct tctctacctc catgatgctt 360
ctcactgtgt atggggggta cctctgcagt gtccgagttt accactatth ccagtggcgc 420
agggcccgag gccaggccgc agaagaacag aagacctcag gaatcatgta gaactggggg 480
gctttttctc ctgagcagag agggcccaagg catgctgtgg agagacttca cctgccacca 540
tttccaggtc aacaggacta gagcgttgat ggttttcaaa ccctgttgga agaaagtgcc 600
catggtttct ctggttctgc cagtttgaca gtttatggag gcttttgaat cgtaaatagca 660
atgtgagggg gaggtacacc tacagacatt aaataatttg ctgtgtcaaa aaaaaaaaaa 720
aaaaaaaaagtc agc 733
```

&lt;210&gt; 573

&lt;211&gt; 569

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (274)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 573

```
gctgactaca gggccgcccg caataaaagc ccaggagccc atttgagggg cctgggcctg 60
gctccctcac tctcaggaaa tgctgacca tgggcaggag actgtggaga ctgctcctga 120
gccccagct tccagcagga gggacagtct caccatttcc ccagggcacg tggttgagtg 180
gggggaacgc ccacttccct gggtagact gccagctctt cctagctgga gaggagccct 240
gcctctccgc ccctgagccc actgtgcgtg gcgnetcccg cctccaaccc ctgccccagt 300
cccagcagcc agccaaacac acagaagggg actgccacct ccccttgcca gctgctgagc 360
cgcagagaag tgacggttcc tacacaggac aggggttccct tctgggcatt acrtcgcata 420
gaaatcaata atttgtggtg atttggatct gtgttttaat gagtttcacr gtgtgatttt 480
gattattaat tgtgcaagct tttcctaata aacgtggaga atcacaaaaa aaaaaaaaaa 540
aaaaaaaaaa aaaaaagtcg tatcgatgt 569
```

&lt;210&gt; 574

&lt;211&gt; 1718

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 574

```
agtaccatcc tcgaggactg tccacgaggg cctgaggaat caggagctga actccacaga 60
gtcagttatg attaatggaa aatattgctg tccaaagata tacttcaacc accgttgctt 120
ctcagggccca tatcttaaca aaggaagaat tgctgagctg cctcaatgtg taggacctgg 180
gaactgtgtt ctggctcctta gagagcctac aaaccagcc gtgtccttcg ggagctccag 240
ctggacaaag actctgtgtg gcacggatgt ggggaagtcc taaaagccaa atataaagga 300
aagagttatc gggctactgt tgagatagtg aaaacagcag atcgggtgac tgaattctgc 360
cggcaaacct gtatcaaact ggaatgctgt cctaacctct tcggtccacg gatggttctg 420
gataagtgtt ctgagaactg ttctgtactt acaaagacca aatacacaca ctattacgga 480
aagaagaaaa ataaaagaat tgggaggcca cctgggtggc atagtaactt agcttgtgcc 540
ctgaaaaaag ccagtaagag gagaaagagg cggaaaaaat tttttgttca taagaagaaa 600
cgctcctctg catctgttga taatacccca gcgggctctc cccagggaag tgggggtgaa 660
```

403

```

gatgaggatg acccagatga aggggatgat gattccctaa gtgaaggcag tacatccgag 720
cagcaggatg agctacagga agaatcagaa atgtcagaaa aaaagtcag ctcctcttct 780
cccacccaaa gtgagatata cacatcgctg cctccagata gacaaaggag aaaaaggag 840
cttcgcacct tttcattttc tgacgatgaa aataaacctc cttcaccaa ggaaataagg 900
atcgaagttg ctgaaaggct tcacctggac agtaaccctc tgaagtggag tgtggcagac 960
gttgtgcggt tcatcagatc cactgactgt gctccattag caagaatatt cctagaccag 1020
gaaattgatg ggcaggccct gttgctcctt acccttccca ctgttcaaga atgcatggac 1080
ttaaatttgg gccctgccat caaactttgc catcacatag agaggatcaa gtttgctttt 1140
tatgagcagt ttgccaaactg agaaggacaa ccaaagttag ctggatcttt gaagcacaaa 1200
tgcagcaaat ccttcacctt gctttataag tggagctgga atagtcctgg ggctctgggg 1260
cctgcaggta tcagcttgct ctctttgcac tttcggggaa ggaggactca cagtggaggaa 1320
gcaaaaactg tgcacagaag tggatcacct gctggtggaa atgtggacat ctcttggtca 1380
gcagatggca gtttttaaaa aataaagggt gtgaggaaaa gacttatata agaagaaaag 1440
catttccagt ggtgtggcct gaaaacaaag aataacctag gctgctggaa agcacccttt 1500
tggttggttt cattctgttc cctcccattg tagattgaac tttgttctct gctttctttt 1560
tcttggaag agaggactta gctttaagtc agcactgatt tgggactgtt cctaaggcat 1620
atcagtgtct cattgtcatt gtgtttttaa actttttaa attaaaacag ttcatttttg 1680
ggatgaaaaa aaaaaaaaaa aaaawraaag tcgacgcg 1718

```

&lt;210&gt; 575

&lt;211&gt; 1544

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1538)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1539)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1544)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 575

```

agtgggatcc aaagaattcg gcacgagggg attaggtaaa agtcttgag tgaaaaaccc 60
gaggaccctt accgcaagtg tcttttgctc ccagctactg atactggatt ccactcgtga 120
ttctcccttt cttagcgcat tcatgatata gacatcagtc tctgagctgg aggaggacaa 180
aggcagcggt cctgtgaatt ctatgctcta gcttgggtta agggatttgg aattgcactt 240
gtttcagaga gctccctctt tgccacttag cagggcatta gctggtgctg aagacagtgg 300
ctgcttggcg agcctggatc tccaagttag cccctcagca actcctgatg aacaggactg 360
aagccaatat taaagcaagt caaccaaagg ttctctggtg tagacaagac agcaaaagga 420
cagactacct tgtggaacct agcattgttc tcttctgca gcactaagta ctgtgtgcag 480
aaatgtgatt gagattcaag tcagggcctc tctgcccttt tccctccaga aacaaaacca 540
agataattta tcctgaacac ggtgaaaaaa ggaaggaggagg gaggagaaaa agtccgggtc 600
tcacctggga ttctctgtct cctgcaacat gaaggattta gcctgggagg aggtggtgag 660

```

404

```

aactctggga gagaaaaaag aaggaaagaa tagttttacc catgctgaag ttaatttaaa 720
ccttcaccta gagaagcaaa aaaaaaaaaa ccacactttc ccattttgtg cctcccttcc 780
tagagtttta gccaaagggt tagctaagta attggtttta ccagcgcaact cactcctcct 840
atcccaagtc tgtttgactc cctccccatc atcctcctca cctcttttca ggcagggtgg 900
ggatagcagc aggaggagat tttgggagcc tggcaactcc tgcaaggacc gcaggacagc 960
ccctctgtgg ggatgcgtgg tgcccatct gccgcccttc tgaagaatgc actgccttca 1020
ctttttactg tgttagagtc catccagact gttctatcca aaaaagtttc tttttcccc 1080
acaggcaatc aggaaatgat tcctttcccg actgcttctg tctagtgcct gggaatcttg 1140
agtcaatccc tcagtaagtc agtgactagg gaaatccctc tctgagcctc ccagttcatg 1200
ttgcttaggg aacctgatat tttcgtgaaa cctgcctaca catgggcagc ccaacagcag 1260
aacaaatggt ggtgaccaa gtgaacaaag aagtatagtt gtgccagctt cgtagttgcc 1320
catgtggaca agtcagcagg atcaggacac gaggaagagt aaatgtgaga cagtcaatgt 1380
gacttctgcg ataaacagat ttttaaacc cgaattttg caaaattttg gtgaaacctg 1440
aactttcttc gttgcatata ctggcactat ctgtaccatc atacaactgt ctcacattaa 1500
agctattttt cttgggcaaa aaaaaaaaaa aaaaatgnna aaan 1544

```

&lt;210&gt; 576

&lt;211&gt; 660

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (74)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 576

```

catcagttct atttaatact tatggcaatt aagagattta gaaagcagag gaaaagacca 60
aaaaaaaaagt atgngttaca aagtgtcatc atgcttgtag gacccagca ttcttgaaac 120
taacgcacct ttaaaaagta atatttacac tgctgtaaat atttgcaaag tatcaatgtt 180
taattcactt agaattttta ggattatgga ttactagcg aaaattcccc taaagcaact 240
ttcccatatc agtaactttt atttagggaa acaagtttaa tgtacataat acatgtgacc 300
ttggaattca atagaatttt cgaaactaga agtaactcag aacrttcact agatggtttt 360
aaagtcyttt ttgatactgt ccytaacatt tgcytatttg cmaattaata tgtaagaatg 420
rgtcyaaaag taagtttttag gaatggttat tcgacaaaga tgttattcct attaccaata 480
ctgcgaaatg ataattacag aaacaatgtg ggatccgttt tataacttca aatttaagtt 540
cctttgtact ttggagcaga aaatgtaaga aatcgaaatc aagagttagt attttttacc 600
tttcaggctg gctttaactg ttcatacacc tagcaaaata aacattttgtg aaaggcggtta 660

```

&lt;210&gt; 577

&lt;211&gt; 574

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (29)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

405

&lt;222&gt; (332)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (532)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (550)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (565)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 577

```

aaatttactc cccagtacaa aggtgtctnt tgatcacagt aacccatagt cccccactgg 60
ggggacggtg ggggaagact ttgggaggat ttaccacaga atacttgccg cctgcttttt 120
gtcctccagg aaaccagaag cccgggtaat taggacaaag ccaaaggccc cttgttagct 180
ggccatccct gccccathtt tccccctggg cctttccctt gtggccacag ggaagtgtgg 240
cctgaatacc ccaccccggc tcctctgcac ccagagctgg gggccacctc agaagtgtca 300
tctctctctg agcacgcatt cccctgcagc antcgaggaa tgagcagatt gagtgatgct 360
ggggcagaga ggcctgggag gaaagggtgt cagccagtcg tttgtaaggc gctcgtcggc 420
acctgctgaa acgccccacac ctgacagccc catcctcaaa gactgtctta attactcatg 480
gcaaggttct agagacttaa ggggaaaagc tgctttaagg ccaccacatg tntgtgctcc 540
ccaaccagtn tatctggcct ggggntcatt ttgg 574

```

&lt;210&gt; 578

&lt;211&gt; 939

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (85)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 578

```

aattcggcac gagccaaagt gcagggatta caggtgtgag tgagccaccg cggccggcct 60
ctatcatttt ctgactcagc agctncacca aaattgacat cctagcaaac actgtgaagg 120
aatlaaccta agtgcttcca gagcatctca tgtaacctct atggagtaag tcactttttc 180
tgtaacatgt ggcttttgac cttgatgaag actttgactt ctcattccctg tctacatgga 240
ggaagatgat tcagtgggtg ggaatatgaa cctcggtaac atttccaatg tccttcaaga 300
gggaaacaag ttcagtgtta tcactgtggc attcgttagt tttttttttt taaatcactt 360
gttttagatac aactttatatt ttttatacct acatagcaca tgactggggg gataaagcat 420
gtataagttg ggagagggta aagaatgtgt gactatgtat acagaaaata gactaaaatg 480
tgcagcaaaa tgatatatac tgtaatctgg tttttgaaat atctactatt ctggaatatt 540
gttaaacaac tttttgcttt tgaaaaaaaa aggtgccttg attcagttgc gtgacttaga 600

```

406

acattcatcc tattttattg tgatttttaa tgtcttctga ccccaaactg tgtttttgg 660  
tgcagtctgg cggctgcagg catagcgtcg gttttgttcc aataacagag accaaagagt 720  
taatcagata tggttcagct gctacaattg tatgattcaa aggcaattta atcaccctaa 780  
atttccatgg cccccacagt caagacctgc cattcgtttt ctcttgacagg ttggagtaaa 840  
tttgactttt gaatcatgtg ggtcatttgg ggaccttgtt cttttctatt ttgctttatt 900  
aataaaggaa cttgtagaaa aaaaaaaaaa aaaaacact 939

&lt;210&gt; 579

&lt;211&gt; 778

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (35)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (59)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (778)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 579

caccagccc ggagatacca tccaccagaa cctgngccat ggcctattag tcctaaagnc 60  
agttgtcaaa gcagggctgt acgtcgggat tcgggaaatt caccagcgtc cgcaacctca 120  
gtccctcaag gccatacctg gacccaacgg tgaagaaaga cgatgaggag gaggaccgc 180  
tggaccagct gatctccgc tctggctgtg ctgcctccca ctttgcagtg caggagtga 240  
tggcccagca ccaggactgg cggcaatgcc agccacaggt gcaggcggtc aaggattga 300  
tgagtgaaca gcaggcgagg cggcaagagg agctgcagag gaggcaagaa caagccggtg 360  
cccaccactg agaccccaaa ccacctatcc ccagtagatg gccctgcaa gaccagcacc 420  
cagcaagatt atagaggaag aaatcctaaa tgctgggtgtg ggaggtctaa aacatgggga 480  
gagtttttgg atctggagtt gagagccatg ggtttggaca tgactggcac aaacagctgt 540  
catatgttca tggtcagatg tcatacatte tcagctgtct tgttccacca gtatttacca 600  
ggaaaacaaa gaatgtgtta agggatgctc cccaccccca catcttaagt cagtgtgcca 660  
agtactgaga tgattttagg gacattttat tttaaattaa atttacaatc taatggtaaa 720  
ttgaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg gggggggn 778

&lt;210&gt; 580

&lt;211&gt; 626

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (432)

&lt;223&gt; n equals a,t,g, or c

407

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (434)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (470)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (537)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (617)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 580

```

gcgcttcaca gcttcctcct cgtctgggat ggtgcccaaa ttgccagctg gcaaaatgaa 60
taaccgtgat ctcaaaccac agcctgatag agtcttgctt ccgttgccca ctgcctatga 120
gctagacagc accaaactga agagcccact aattacttcc cccatgttcc gtaatgtgcc 180
cacagcaaac cccacggagc cgggaatcag acgggtyccg ggggcctcar aggtgatccg 240
ggagtcgagc agcacaacag ggatggtcgt cggmattgtg gctgctgccc cctcttgcac 300
cttgatcctc ctgtacgcca tgtacaagta caggaacagg gacgaggggt cctatcaagt 360
ggacgagacg cggaactaca tcagcaactc cgcccagagc aacggcacgc tcatgaaggg 420
agaaagcagc anantcgaag gagccggcca caagaaacca gaaaaaacn tgggacaggg 480
gaagtattta acgtggtaaa accattggcg aaaccaactt gggttcaaca accgccnaag 540
ttttttttca ccaagggtta atttttcctt aattcccaac gggcccttta tttgaaaaat 600
ccttttttgg ggaaccnggt tggaaa 626

```

&lt;210&gt; 581

&lt;211&gt; 645

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (595)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (604)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

408

&lt;222&gt; (608)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (621)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 581

```
gcttggatta tatctaaatg gattatttgt taaaagtact gaaatgagta taaggcagta 60
tcacccatcc aaaagaaagg tctttataga cctgcacagt cactagatta attcattaaa 120
atgccccac cctgatgtaa ttgacattac atttcttaac attttaaaat ctagaatttc 180
taaaatggaa tttaatgcca tcacaatttg aaaaactttt ttttttttt tactatagaa 240
gttacaagg aagttctaaa attatgcctc cctctgtttt tataagttgc catcgaaaag 300
tgatttaaat aagcagggtta tctttataga ttttaaagaa aactagaaag ttytaatgtt 360
ttaacttggg gaaaaataca tctctttaat gttagcatg cttgtcaacc ttgagtgagt 420
gtcattttta agaacagttg tagcccttct gattattgca gtagctgtag aagtatgtaa 480
gaatatgtga tgggtgtagt cattagcaaa gcatttaaat cacttgagta ttttgtcatg 540
gktcattatt attaaagcac aaaataacct attgttagaa aatatgtgtt ttatnaatga 600
atgnaaanta attaaaaaaa naaaaaaagg ggcggccggt ctaga 645
```

&lt;210&gt; 582

&lt;211&gt; 369

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (339)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (352)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (362)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 582

```
gggagggtat ggggcacact tccccaaggg cggacccagc aggaggaagc ccaggagctg 60
ggtcctgccg cccaggagct gggccctgcc acccaggccg ggctaggagc atggcagggc 120
ctgggcatcc tggcgctgga cttgggcgac ctgggaggca caggagggg agagatgggc 180
ggccccgcc cagcgcagtg ccggccacac ccatgcaccg aagctcctcc ctgccacacc 240
ccaaggcggg tgccggagct taagccccgc cccagcagc gagaacatcc cccccccac 300
ccccctgcag ccagtgtctc ttgtcaagct cccccgtna ctccagtggg anccaccccc 360
gngagggggg 369
```

&lt;210&gt; 583



409

<211> 1269  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (719)  
<223> n equals a,t,g, or c

<400> 583  
g c g g a c g c g t g g g c g g c g g c g t y c a g g g t c g g c a g c a a c c g c a g s c g a g c c c g a g c g g g t 60  
g g c g g c g c c a t g g c g t g c g c g g g c t g t c c a c c t g t g c c t g c t c c g g c c g c c c g c g c c 120  
c a g c c c c a g c c c c a g a c c c c g c g g c a c c c c c a g c t c g c g c c c g a c c c g g g g c c c g c c g g a 180  
c a c a c g c t c t t c c a g g a c g t t t t c c g c a g a g c a g a a g a t g a t g a t g g g a a g c t c t c a 240  
t t t g a g g a a t t c c a g a a t t a c t t t g c c g a t g g g g t t c t c a g c c t g g g g a g c t g c a g g a a 300  
c t g t t c a g c g c a t t g a t g g g c a t c t c a c c g a c a a t t t a g a a a c a g a a a a a c t g t g t g a c 360  
t a c t t c t c a g a g c a c c t g g g t g t c t a c c g c c g g t g c t g g c t g c a t t g g a a t c g c t g a a c 420  
c g t g c a g t g c t c g c t g c c a t g g a t g c c a c a a g c t g g a g t a c g a g a g g g c c t c c a a a g t g 480  
g a c c a g t t t g t g a c r c g c t t c c t g c t g c g g g a g a c g g t g a g c c a g c t g c a a g c c t t c a g 540  
a g c t c g c t g g a g g g g c g t c a g a t a c c c t g g a g g c c c a g g c c a t g g c t g c g g t c a g a t 600  
g c a g a g a g c g t g g a g g c g c a g a g c a g g c t c t g c g g c a g c g g c c a g a g c c a g c c 660  
c t g a g g a g t g t c a g c c g g t c a t c c a c c t g g t c c c c c g g c t c t t c t g a c a c a g g g c g c a n t 720  
c a g a g g c c g a g a t g c a g t g g c g g c t c c a g g t g a a c c g c c c a g g a g c t c a t c g a c c a g c 780  
t c g a g t g c a a g g c c c c c c g g c t g g a a c c c c t g c g t g a a g a g g a c c t g g c c a a g g g c c t g 840  
a c t t g c a c a t c c t c a t g g c c c a g a g g c a g g t c c a g t g g c a g a g g a a g g c c t g c a g g a c t 900  
t c c a c c g a g c c c t g c g c t g c t a t g t g g a c t t c a c a g g g g c c a g a g c c a t t g t c t g c a t g 960  
t g t c c g c c c a g a a g a t g c t g g a c g g t g c c t c c t t c a c c c t g t a t g a g t t c t g g c a g g a t g 1020  
a g g c c t c c t g g a a g g c a c c a g c a g t c g c c t g g c a g c a a g g c c t t c c a g c g c a t c c t c a 1080  
t c g a c c a c t g c g g c c c c c g g a c a c c c t c a c c a c t g t g t t c t t c c a g c c c t g g t g g a t 1140  
a a t g a a t a a c a a c t g a g c c a g a c c t g c a c a c g c c g a g g g c c c c g g g a c c c t g c c t g c c t c 1200  
t g a a c c c c a g g t g g g a c c c c a g c a c a g a g g c a a t a a a g g c a g t g g t c c c t t c a a a a a a 1260  
a a a a a a a a a 1269

<210> 584  
<211> 1943  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (1177)  
<223> n equals a,t,g, or c

<400> 584  
g c t g a t c c a g a a c g t c a c c c a g a a t g a c a c a g g a t t c t a c a c c t a c a c g t c a t a a a g t c 60  
a g a t c t t g t g a a t g a a g a a c t g g c c a g t t c c g g g t a t a c c c g g a g c t g c c c a a g c c 120  
c t c c a t c t c c a g c a a c a a c t c c a a a c c c g t g g a g g a c a a g a t g c t g t g g c c t t c a c c t g 180  
t g a a c c t g a g a c t c a g g a c g c a a c c t a c c t g t g g t g g g t a a a c a a t c a g a g c c c c g g t 240  
c a g t c c c a g g c t g c a g c t g t c c a a t g g c a a c a g g a c c c t c a c t c t a t t c a a t g t c a c a a g 300  
a a a t g a c a c a g c a a g c t a c a a a t g t g a a a c c c a g a a c c c a g t g a g t g c c a g g c g c a g t g a 360  
t t c a g t c a t c c t g a a t g t c c t c t a t g g c c c g g a t g c c c c c a c c a t t t c c c c t c t a a a c a c 420

410

```

atcttacaga tcaggggaaa atctgaacct ctctgccac gcagcctcta acccacctgc 480
acagtactct tggtttgtca atgggacttt ccagcaatcc acccaagagc tctttatccc 540
caacatcact gtgaataata gtggatccta tacgtgccaa gcccataact cagacactgg 600
cctcaatagg accacagtca cgacgatcac agtctatgca gagccacca aacccttcat 660
caccagcaac aactccaacc ccgtggagga tgaggatgct gtagccttaa cctgtgaacc 720
tgagattcag aacacaacct acctgtggtg ggtaaataat cagagcctcc cggtcagtcc 780
caggctgcag ctgtccaatg acaacaggac cctcactcta ctcagtgtca caaggaatga 840
tgtaggacct tatgagtgtg gaatccagaa cgaattaagt gttgaccaca gcgacccagt 900
catcctgaat gtctcttatg gccagacga cccaccatt tccccctcat acacctatta 960
ccgtccaggg gtgaacctca gcctctcctg ccatgcagcc tctaaccac ctgcacagta 1020
ttcttggctg attgatggga acatccagca acacacaaa gagctcttta tctccaacat 1080
cactgagaag aacagcggac tctatacctg ccaggccaat aactcagcca gtggccacag 1140
caggactaca gtcaagacaa tcacagtctc tgcgganstg cccaagccct ccactctccag 1200
caacaactcc aaacccgtgg aggacaagga tgctgtggcc ttcacctgtg aacctgaggc 1260
tcagaacaca acctacctgt ggtgggtaaa tggtcagagc ctcccagtca gtcccaggct 1320
gcagctgtcc aatggcaaca ggaccctcac tctattcaat gtcacaagaa atgacgcaag 1380
agcctatgta tgtggaatcc agaactcagt gagtgc aaac cgcagtgacc cagtccacct 1440
ggatgtcctc tatgggccgg acacccccat catttcccc ccagactcgt cttacctttc 1500
gggagcgaac ctcaacctct cctgccactc ggctctaac ccatccccgc agtattcttg 1560
gcgtatcaat gggataccgc agcaacacac acaagtctc tttatcgcca aaatcacgcc 1620
aaataataac gggacctatg cctgttttgt ctctaacttg gctactggcc gcaataattc 1680
catagtcaag agcatcacag tctctgcac trgaacttct cctgggtctc cagctggggc 1740
cactgtcggc atcatgattg gagtgtggt tggggttgct ctgatatagc agccctggtg 1800
tagtttcttc atttcaggaa gactgacagt tgttttgctt ctcccttaaa gcatttgcaa 1860
cagctacagt ctaaaattgc ttctttacca aggatattta cagaaaagac tctgaccaga 1920
gatcgagacc atcctagcca aca 1943

```

&lt;210&gt; 585

&lt;211&gt; 577

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (78)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (80)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (81)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (82)

&lt;223&gt; n equals a,t,g, or c

411

&lt;400&gt; 585

```

caccggctccg gaattcccgg gtcgacccac gcgtccgggc tctgaaggag gttttcaagg 60
agtatttgat tgaactgnn nngttgcaac actttcaagg gaacatgatg gattttcttag 120
ctttcaagga gagactgtat ggaccattac aagcatactt taggcagaat gatttggaca 180
ttgaagaaga ggaagaggag cactttgaag tcattaatga tgaggtaaag gttgtggcca 240
gaaagcacgg gcagcctggg actcctgttg ccatagcaac ccasstaccg ccgaggactt 300
ctgcggcctt tccagcccag cagcagccgc tccaggctact ttctgatggc tccacagtgc 360
agctccccag actttcctca ctccgatttg aggactcgat gtgctgaggc akgacccaga 420
gggggtcccaa gagcctgtcc tcttttggtc aaaatacatc ttgaaacgtc tttgtgaagg 480
ctcttagttt taatgcatgg atgctgttat ttttcctac tgttactgaa attaaaaagt 540
gtttgtctct gaaaaaaaaa aaaaaaaaaa aaaaaaa 577

```

&lt;210&gt; 586

&lt;211&gt; 1240

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 586

```

gtcgtgccc cggccccgcc cgcgtcagct ctgcgcgggtg attcactccc tccttcgccc 60
cggggccccc ttcccgccca gacggcgggc aagacagctg ggtgtacagc gtcctcgaaa 120
ccacgagcaa gtgagcagat cctccgaggc accagggaact ccagcccatg ccatggcgga 180
ttctgagcgc ctctcggttc ctggctgctg ggccgcctgc accaacttct cgcgcactcg 240
aaagggaaac ctctgtttg ctgagattat attatgcctg gtgatcctga tctgcttcag 300
tgctccaca ccaggctact cctccctgtc ggtgattgag atgatcctg ctgctatttt 360
ctttgttgtc tacatgtgtg acctgcacac caagatacca ttcataact ggccctggag 420
tgatttcttc cgaacctca tagcggcaat cctctacctg atcacctcca ttgttgctct 480
tggtgagaga ggaaaccact ccaaaatcgt cgcaggggta ctgggcctaa tcgctacgtg 540
cctctttggc tatgatgcct atgtcacctt ccccgctcgg cagccaagac atacagcagc 600
ccccactgac cccgcagatg gcccggtgta ggccgaacttc cctcatttct ctctgcaatc 660
tgcaataaac tcctccattg aaataactcc tccccacccc aacaacaaca ttcccagcag 720
accaactccc accccctctt tgaggtaaaa gtgcctttat tgggagactt ttgtcttcca 780
gcctgccaat caaccctcct ggggtgtggc accatatgtg tgtgcctagg tcctccttct 840
gcacgatcca ataggagaca ccagttctga ctgaacatg cccccaccta agtcacaaaa 900
tgagggaagt ggggagttag atttcagagt ccaggcccta ggttgggacc cactccaaat 960
aatctcctcg gtgtgggtgg tggttctata gagggataaa tgaataataa acattgttaa 1020
aatatacgat aatgaataaa gtaatccttt catcaaatgt gggtaaattt caagcatcag 1080
gagggggaaa tggagtggaa acagctgggg caaggaggca aagaagccag gcctgtttta 1140
caacaaatat taaattactt caataatata aacgagaggc ccggtgcggt ggctcatgcc 1200
tgtaattccc agtccttttg gaggtgcgg gaggattgct 1240

```

&lt;210&gt; 587

&lt;211&gt; 875

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 587

```

ggaarggttg taggaactaa tcacgtttca gcttggtgtg cgggctgtga gtcacggttg 60
cactgcgatt atgtaagcac gcaggaatag gtggcatgac atatatgctg ccagcagcca 120
cgggcctcgc ccttcagagt caccactact ttttaagcct ttttttgat acaagtttct 180
ttgggttcat ctttgraatg raaatgraag catgattgca gaataggcag amcaggaatt 240

```

412

```

atccatcaat cagagagamc ccagaccttt aagagaagct ggaattagaa tatggaattc 300
ctgagccttg agctggcata gccgagccct ggtttatgct ctccctgcct ccctcctttt 360
ttccctcctg cctgtgtgct ccacttcctc tcctgagact cccccaaggt agcatcactc 420
ccaccaggag ccttaggcag gaaaagtaag gcccagagaa gggactgtcc ctggggacgt 480
gcactgagtg tgtgtgaggg tgcggggcag gaataggagt gccaggagtc tacctctgga 540
gcaatgcctc ccacagtatt tctgtagggg aaaggataga aactcacttc ttgggttcct 600
ccaatcacca tgcacatgtc agtccttcag ctatcaatgc aaaggaaacc cagaactgag 660
at ttgagctt tctcaccatc tccatggcca gatatctcca ctgccaaagg gttcattccg 720
cctctgggtt tatctctttc ttcattgttc ttctggcag tgctctgttg aagcttacct 780
tcccatctgt gtttgcatcc actccctaaa aactacaaga caaaaaaaaaa aaaaaaaaaa 840
tcgagggggg gcccggtacc caattcgggc tatag 875

```

&lt;210&gt; 588

&lt;211&gt; 1517

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (144)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 588

```

gttgagtctt tgggtgtgct tttaatgggc tctctgcctc ttccttaggt gtcaggctgc 60
tctacctgtt tctagacgct ctccctttcc cccttccaaa cctcttttct tccttgctgc 120
tttctatct tctgtggcta gganatcagg taatcaagcc tgtgttttct gtaatgagta 180
agtgggttgc cagcgaggtc tctgtggatg ctctgtgag tcaagtgcac gagctttagt 240
gcatggactt tgggtcttg gttcccacag cttatatgtt ttgggggctg ctttcttgct 300
ctttaccac attctgtgct atgagtgtgc cgggtagggt gcctcctgcc cgatggaggc 360
tgagcatctt ggcagtgtcc atcatgcctt gcgtgtgcct ggctcttttg ctgcagatac 420
tatggaccg cagctcatcc cctgctcacc acctggcctc tccttttctc tgtgtgcaga 480
tctggcagt tgggtgggtt ctggaaacac acctatgttc ccatgttggc catgttttcc 540
ccaagcaagc tcctactcc cgcaacaagg ctctggccaa cagtgttcgt gcagctgaag 600
tatggatgga tgaatttaaa gagctctact acctcgcaa ccccgctgcc cgcttggaac 660
cttttgggga tgtcacagag aggaagcagc tccgggacaa gctccagtgt aaagacttca 720
agtggttctt ggagactgtg tatccagaac tgcattgtcc tgaggacagg cctggcttct 780
tcgggatgct ccagaacaaa ggactaacag actactgctt tgactataac cctcccgatg 840
aaaaccagat tgtgggacac caggtcattc tgtacctctg tcatgggatg ggccagaatc 900
agtttttctga gtacacgtcc cagaaagaaa tacgctataa caccaccag cctgagggct 960
gcattgctgt ggaagcagga atggataccc ttatcatgca tctctgcgaa gaaactgccc 1020
cagagaatca gaagtcatc ttgcaggagg atggatcttt atttcacgaa cagtccaaga 1080
aatgtgtcca ggctgcgagg aaggagtcca gtgacagttt cgttccactc ttacgagact 1140
gcaccaactc ggatcatcag aaatggttct tcaaagagcg catgttatga agcctcgtgt 1200
atcaaggagc ccacgaagg agactgtgga gccaggactc tgcccaacaa agacttagct 1260
aagcagtgc cagaaccac caaaaactag gctgcattgc tttgaagagg caatcatttt 1320
gccatttgtg aaagtgtgt tggatttagt aaaaatgtga ataagctttg tacttatttt 1380
gagaactttt taaatgttcc aaaataccct attttcaaag ggtaatcgta agatgttaac 1440
ccttgggtatt tagaaaatta aaaccttata atatttttct awmaaaaaaa aaaaaaaaaa 1500
aagggcgccc gctctag 1517

```

&lt;210&gt; 589

413

<211> 871  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (12)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (863)  
 <223> n equals a,t,g, or c

<400> 589  
 gggagcggag gncaggaacc caataagctg cttgcctcg gagctgaagc ccgtactcaa 60  
 gatggcggct ccgggcgggc gtggccagtg actagaaggc gaggcgccgc gggaccatgg 120  
 cggcggcggc ggacgagcgg agtccagagg acggagaaga cgaggaagag gaggagcagt 180  
 tggttctggt ggaattatca ggaattattg attcaractt cctctcaaaa tgtgaaaata 240  
 aatgcaaggt tttgggcatt gacactgaga ggcccattct gcaagtggac agctgtgtct 300  
 ttgctgggga gtatgaagac actctaggga cctgtgttat atttgaagaa aatgttgaac 360  
 atgctgatac agaaggcaat aataaaacag tgctaaaata taaatgccat acaatgaaga 420  
 agctcagcat gacaagaact ctctgacag agaagaagga aggagaagaa aacatagggtg 480  
 ggggtggaatg gctgcaaata aaggataatg atttctccta tcgaccacac atgatttgta 540  
 actttctaca tgaaaatgaa gacgaagaag tggtagcttc agcccagat aaatctttgg 600  
 aattggaaga ggaagagatt caaatgaacg acagttcaaa cctgagttgt gaacaggaga 660  
 aaccaatgca cttggaaata gaagattctg gtctcttat tgatatacct tctgagacag 720  
 aaggttctgt ttttatggaa actcaaatgc tgcttagaa atcactccta gatgaaatgt 780  
 ttctcataat aacttgtcaa gaacttttta gagttgttac ataaaaataa ttgctgtgta 840  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa t 871

<210> 590  
 <211> 1566  
 <212> DNA  
 <213> Homo sapiens

<400> 590  
 ctttcatact acccttttagt cataaggaga aaaaaacact caaatagtag aagcagcaag 60  
 tagcaaactt caggagagct actttctatc caaataattt aaaaaacact tttcacctac 120  
 tcctttcatg gttataacac attggcagac tttttgctgg ctctgggagc catgatttta 180  
 atcacattct gcaagggtgac aaatgtcata cattccacat tgtgtggtag ccatctcttt 240  
 agactcatgt gttttgggga aaggaagaag ttcttgctg agtactatct tgaactttcc 300  
 agaaccctct cacaccagag acagttcttc tctgttcagt ttccaatccc cgataatttg 360  
 ctaaaataac attgtacatc caagagaggg aagaagagta tgtcagtata ttatgcagaa 420  
 gatagataca gccttttcag aagatctcca ctagtttttg ttccaaaaat tcaagtttat 480  
 gggagaaaac tcaattagcc accttttcac agttgtgtgg atataacatt tgggggatct 540  
 ttctggactc ctacctatct gtgcatttta ccggcacctc aggaaaggag ggtgaccagg 600  
 ttgtcttagc ttgtactgct tgggtgatctc tgaggacctt ctaattcagt tgtaccccag 660  
 tgttccatgt atagaaaaac ttcattagaa caaactttac ttgatatgaa actcctatta 720  
 acagtctttt tttgaaataa aaagtagctt gagctttctt ttaaaatcat gtatcttgat 780  
 tgttgattta atgaaggatt tccttttaat gctgcttttg agcttcaagg taataggaca 840

414

```

gcaggaacct aaaatatctg ccatcatctg ccataggaaa gatacccaga gacccatcat 900
gttctctttt tgttggttaca ctgttggtg ggtataacaa ttggaaaatg aacaaactga 960
ttgattgtgc aaactacttt ttatgacaag cctaaaccct cataatgcgg cagcttaaag 1020
tgtatacata tgcactaact ttgatcaatt atattctcat atctgttagc tacacagtct 1080
cctattatct caattgctta tgtgcatatg gaatatgtta cttaaacgt gtgcattctt 1140
actgaaaatg ttttcaaagg aaggtatcag ctgtgggcta attgccacca atttcagcct 1200
gccacgattc ttggaaatat gtcttccaag tgccatccat catcagtagg acaagtgtcg 1260
ggagtttgtt tatttttttc cagtagcaac gatgggttac atggagccat gaaacctcct 1320
tctggcctcc cttgtgatta atggcatgtg tttgtaaaat ggatagctgg ggttggcaga 1380
tggttagaga agaatcgctt ttggtttaa atgtatgtgg tcccctaatg attgtgacct 1440
cattctgtaa tcaactgagc tagttccaat aaagttaagc aggtttaa atccactttgtg 1500
cctatctttt cactgacaat aaagttagct attttaaaat gcaaaaaaaaa aaaaaaaaaa 1566
aaaatt

```

&lt;210&gt; 591

&lt;211&gt; 1192

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (298)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 591

```

accttgagtg tccttggcaa cctagccttt gacattgatg tttttccata ggattttctt 60
catttgggtt ggaataaaaa tgcattttta ttcacaaggc acagacagat aagaatatca 120
taagcaggga agtgtctcca aaggtcagga cttatgtttt tctgttgagt gctatatgtg 180
gaggttattg caagttccct gatatgagta tggtttcgct tgctacattg tgcctattaa 240
agtaaaattt tacacaagcc tcgcatttct aagattagtg ttcccgaatg aaatgttnaa 300
gaaaacatta aaagattatc tctttttaag atggaggaaa aaaagtgaac aaagctaatt 360
aatctataat gaaaattgca caaaataaca tttcttaaca aatttaatac aattttgtgt 420
tctttgttgc tagtggtata aaacgagatt tttttccctc atttttctca ttgtagatgt 480
catctctcac atttatatca gtgaggtttg aaattctgtg tagcagttac tcagcacata 540
tgagagggca gcgaatgaat gagatttgtc atgtgcta ataaaagctgaa tttttgtaat 600
ctaaaatgat gtattttcta ctattgctgt taatttgc atgttataaa tcttaagtt 660
taatatgtta tgttcagtc tggaaagcga ccactcattt ttttcttaa gttgatgcct 720
tttctgctgt gctagagtc gtattttgct tctggcagga gagctgcaa ctgtgtatcc 780
tcaaacagat gcaaaaagta gtgctttgca aaacgtttgt tttctgttta tctcagatta 840
acatccttta atacaagttt ctttaagtgt acttgattt ctgaaaatgc ttaaaattat 900
tttatatttc cctttgggaa tttttctcta tttccagcac gctgatttga tttaaaaatg 960
taataagacc aagagttgga gtaaagggat attcattcca tgttaaaagt ggcttcata 1020
ctactgacaa atgtctgaac tattgtcgtg cccttcaaaa ctggagtttt ctaaaataat 1080
cttattttta tacttgtagt ttccagcaat ttaagatata taccattgaa agggaaataa 1140
aacatttttg tttatttgaa taaataatac tccccaaaaa aaaaaaaaaa aa 1192

```

&lt;210&gt; 592

&lt;211&gt; 401

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

415

<220>  
<221> misc feature  
<222> (220)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (361)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (400)  
<223> n equals a,t,g, or c

<400> 592  
ttatttggaa gacattatatt gtggaacata atggcataac atttacatac gttcacctwc 60  
tgactttgag tatgaatgtg taggttgtgt atatgtgtga atatataac accacgatgt 120  
cattctaagt gtttggaat aactgttcat acatgtrgtt taccttcttc cttggaatta 180  
ctatcttgta atatggcatt aaagaattat cccatctctn aagtcctttg cctgggaaac 240  
atggtgaact ggaggatcct tacacattct gtgtgaccag ctattaaaca gaatgaggac 300  
taggtctctc tgtcactgac ttgggaaggt aatgaaatgt tcaggcaacc agtattgaca 360  
ncttgacgt tttgccccgg ttttgtttcc caggtgattn a 401

<210> 593  
<211> 654  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (58)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (71)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (545)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (564)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

416

&lt;222&gt; (592)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (593)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 593

```

gtccggccta ccttttataa cttgaatggt aaggaatgga ccatgggcta ctactggnc 60
ttagtgccat ntaaccagcg ataataaaat tctctattag tctgttaatt tatgaccatg 120
atctcggaat ggaaaaagat catttccaga gtgtgcgaaa taatagtctt taaccatgta 180
attaaatatg tgtgttttatt gtcaaataag gatttgtttt aaaggtgatt cttggggttg 240
aagacatttg ttaattcatg gtctgtacag aaatgaagct gggtgcaata ccaatctaga 300
gagtccaagc tggcgaaacta ttaagctggt taaagatcac ccttggcctg gcacagtgg 360
tcacacctgt aatcccagca ctttgggagg cctaggcagg cagactgagc tcaggagctt 420
gagaccagcc tgggcaacat ggcaaaaacc cacctctaca aaaagtacaa aaattagtcg 480
ggcgtgatgg caggcatctg tagtcccagc tacttgggaa gctgaagtgg gaggatcacc 540
tgganctctg gatgtggaag ctgncatgag ccatgatcgt gccactacac tnnagcctgg 600
gtgacagaat gagatcctgt ctcaaaaaaa aaaaaaaatc acccttaa at caac 654

```

&lt;210&gt; 594

&lt;211&gt; 682

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (673)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 594

```

tggaaggagc agcagttttg caaggtaagc agggcagaga cacagcccat ggcccctcat 60
tgccctgctg gtaagggctg atggarctcc ccgcagcgtg gttcctgect ggktgacaga 120
ggctcctktg gccactttag aartgcggtt tactcctcat gccgagatgg accttgggca 180
gtcagttca caagatgttg gtcaggcgtc attttaaata tttcagtcag cagaggaagc 240
aaagcgtgcc attgaggctg tgctgtcagc ggatcctcgg tctgtgtacc gccggaagct 300
ttgccaggac cgccttttct actttactgt agacatagcg catgtcactt gctggtttg 360
tgatggcttt gcagagggtg tgaggatcaa gccggcttct gagcctgttc atatgactgg 420
ccctgtgggg tccttggtgt ctctagggtc ttaaggagcc tccctcatgt ctttaaggta 480
gcatcattga tctttggatg tggcttttgg attttctgaa caagcta atg ttgtgtcrag 540
aagcaacact ttgtgatctc atggctttga ttgatttggg ctgttcaaaa tgtttatattg 600
aaaaacgtat acattaataa acttaacaaa gagatataaa aaaaaaaraa aaaaacccga 660
ggggggggccc ggnacccaat tc 682

```

&lt;210&gt; 595

&lt;211&gt; 1430

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 595



417

```

cagtctcagt tggagggctg atartaaacc ttattggtat ctgtgccttt agccatgccc 60
atagccatgc ccatggagct tctcaaggaa gctgycactc atctgatcac agccattcac 120
aycatatgca tggacacagt gaccatgggc atggtcacag ccacggatct gcgggtggag 180
gcatgaatgc taacatgagg ggtgtatttc tacatgtttt ggcagataca cttggcagca 240
ttgggtgtgat cgtatccaca gttcttatag agcagtttgg atggttcac gctgaccac 300
tctgttctct ttttattgct atattaatat ttctcagtgt tgttccactg attaaagatg 360
cctgccaggt tctactcctg agattgccac cagaatatga aaaagaacta catattgctt 420
tagaaaagat acagaaaatt gaaggattaa tatcataccg agaccctcat ttttggcgtc 480
attctgctag tattgtggca ggaacaattc atatacaggt gacatctgat gtgctagaac 540
aaagaatagt acagcagggt acaggaatac ttaaagatgc tggagtaaac aatttaacaa 600
ttcaagtgga aaaggaggca tactttcaac atatgtctgg cctaagtact ggatttcatg 660
atgttctggc tatgacaaaa caaatggaat ccatgaaata ctgcaaagat ggtacttaca 720
tcatgtgaga taactcaaga attacccttg gagaataaac aatgaagatt aaatgactca 780
gtatttgtaa tattgccaga aggataaaaa ttacacatta actgtacaga aacagagttc 840
cctactactg gatcaaggaa tctttcttga aggaaattta aatacagaat gaaacattaa 900
tggtaaaagt ggagtaatta tttaaattat gtgtataaaa ggaatcaaat tttgagtaaa 960
catgatgtat tacatcatct tcaaaaatag atatgatgga ttctagtga gaccaaatt 1020
acttctgttt actttctatc aggaagcatc tccattgtaa atatgtattt acatgtttat 1080
taciaagacc caaatgaaaa attttttagtc cattttttgc atagcctaaa gataaaatag 1140
gaataaaagt tctatattta tggattttct gtatataaaa ctggtttcta attataactt 1200
aagtccatta agtaaaatct gtattgccac tttaaatgta aactaaatta tttgggagaa 1260
acttcaacca ctgatatgag ataagcaatg agaataggga agtgtataac atcacagttt 1320
ttgatgtatt acaaaaatca accactctat aaaataaatt ttttttactt ttggtaatat 1380
ttgcaaatga ataattaatt tattagggta aagaacttat actaagttgt 1430

```

&lt;210&gt; 596

&lt;211&gt; 1597

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 596

```

gctagtcctt cggcgagcga gcaccttcga cgcggtcagg ggacccctc gtcgctgtcc 60
tcccagcgcg gacccgcgtg cccagggcct cgcgctgccc ggccggctcc tcgtgtccca 120
ctcccggcgc acgccctccc gcgagtcceg ggccctctcc gcgccctct tctcggcgcg 180
cgcgcagcat ggcgcccccg caggtcctcg cgttcgggct tctgcttgcc gcggcgacgg 240
cgacttttgc cgcagctcag gaagaatgtg tctgtgaaaa ctacaagctg gccgtaaaact 300
gctttgtgaa taataatcgt caatgccagt gtacttcagt tgggtgcacaa aatactgtca 360
tttgctcaaa gctggctgcc aaatgtttgg tgatgaaggc agaaatgaat ggctcaaaac 420
ttggggagaag agcaaaacct gaagggggcc tccagaacaa tgatgggctt tatgatcctg 480
actgcgatga gagcgggctc ttttaaggcca agcagtgcaa cggcacctcc aygtgctggt 540
gtgtgaacac tgctggggtc agaagaacag acaaggacac tgaaataacc tgctctgagc 600
gagtgagaac ctactggatc atcattgaac taaaacacaa agcaagagaa aaaccttatg 660
atagtaaaag tttgcggact gcacttcaga aggagatcac aacgcgttat caactggatc 720
caaaatttat cacgagtatt ttgtatgaga ataatgttat cactattgat ctggttcaaa 780
attcttctca aaaaactcag aatgatgtgg acatagctga tgtggcttat tattttgaaa 840
aagatgttaa aggtgaatcc ttgtttcatt ctaagaaaat ggacctgaca gtaaatgggg 900
aacaactgga tctggatcct ggtcaaaact taatttatta tgttgatgaa aaagcacctg 960
aattctcaat gcagggtcta aaagctgggt ttattgtgtt tattgtggtt gtggtgatag 1020
cagttgttgc tgggaattgtt gtgctgggta tttccagaaa gaagagaatg gcaaagtatg 1080
agaaggctga gataaaggag atgggtgaga tgcataggga actcaatgca taactatata 1140
atttgaagat tatagaagaa gggaaatagc aaatggacac aaattacaaa tgtgtgtgcg 1200

```

418

```

tgggacgaag acatctttga aggtcatgag tttgttagtt taacatcata tatttgtaat 1260
agtgaaacct gtactcaaaa tataagcagc ttgaaactgg ctttaccaat cttgaaattt 1320
gaccacaagt gtcttatata tgcagatcta atgtaaaatc cagaacttgg actccatcgt 1380
taaaattatt tatgtgtaac attcaaagt gtgcattaaa tatgcttcca cagtaaaatc 1440
tgaaaaactg atttgtgatt gaaagctgcc tttctattta cttgagtctt gtacatacat 1500
acttttttat gagctatgaa ataaaacatt ttaaactgaa aaaaaaaaaa aaaaaaaaaa 1560
agtcgacgcc aggaatttag tagtagtagt aggcggc 1597

```

&lt;210&gt; 597

&lt;211&gt; 602

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 597

```

ggcaggggtg gagccctcat ggagaacctc tgttagggca gtgcagaaga gaaatgtgag 60
gtcagagcct tcacacacag tccccactga ggactgcct agtggagctg tgagaagaga 120
gccactattc tccagatccc agaatggtag atcaaccaac agcttgact gtacatctgg 180
aaaagctgca gacactcaat gccagcctat gaaagcagct tggaaatggg ctgtaccctg 240
caaaggcaca ggggcagagc tgccaagacc atgagagtct acttcttcca ccagtgtgac 300
ctgaatgtga gacatagagt caaaggagat tattttggag ctgtaaaatt caatgaatac 360
cctgctggat tctggacttg tcattggctt ttagccctt tgttttgtcc aattctccta 420
tatggaatgg gagcatcctc atccaatgcc tgtaccctca ttgtgtctta gaagtaatta 480
acttgctttt gatatttatag gccatgctaa tcagcattca gttctagatt ccaatttatt 540
ctcagtgtgc ctgtataact tttctttcta tatatatata attaaatttc tattacttat 600
tt 602

```

&lt;210&gt; 598

&lt;211&gt; 432

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 598

```

gctcgtgccg aattggtgcg gcgtcaggtg cgcccgccag gtgagcgcgc tccctggcac 60
cgttggcccc cggaggggtcg ggcccagttg cggcgagcgg attggtttat cttggaagct 120
aaagggcatt gtcacacctg aagatcagct gaccattgac aatcagccat gtcacccagg 180
cctcttgaaa gtccacctcc ttacaggcct gatgaattca aaccgaatca ttatgcacca 240
agcaatgaca tatatggtgg agagatgcat gttcgaccaa tgcctctctca gccagcctac 300
tctttttacc cagaagatga aattcttcac ttctacaaat ggacctctcc tccaggagtg 360
attcggatcc tgtctatgct cattattgtg atgtgcattg ccatctttgc ctgtgtggcc 420
tcacgcttgc ct 432

```

&lt;210&gt; 599

&lt;211&gt; 1319

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (591)

&lt;223&gt; n equals a,t,g, or c

419

&lt;400&gt; 599

```

tgtgtgttca caaccaaagt ttgatgccct tatctactga taatatacctc tcaatgttca 60
ctgaggcata gaaattatct cagagtagaa attgcagcat gaggataaac tcacctcttt 120
gttctgaaaa tagaacttta tcactatgct ttccgggtggg ttccctctttt acaatcgaaa 180
tcttgtgcct cccaagtgca ttggaaaatg acaaaagcct gtctctccaa attcctatctt 240
aacagtttga tttttttttt ttaatcacca tctttcaaat cttagctcaa ctctcaccaa 300
gtgaaaattg gctacttggg agaaaagttaa ctttctatgg tgggatgggtg aaggatgagg 360
gacagtttac ataggaaaag aaaaaaaaaa gtctaaagtc catgttgaaa aaccacacta 420
ccacttatct tctgctaacc cttaaattatt tttgcgtata cgcttgaggt tatagtctgt 480
gcctagacct aaaatgcacc agcggggggg attttaaaaa atccttcaaa ataccagttt 540
tttcccaaca agtacaattg ttcttgtgcc ttctgtggct ttcgatttca nctttttkac 600
tttwtttcca attactacag ctgcaataaa cactagattt ttttctggc tgtttgacat 660
aacgttgata gctatgcata tkttgtgtct ttttaaaaca aagcgggaga atacgttttt 720
gaagaagaga attttttagaa cagtttgata ccgcaaatta ttttctcctc aattgtttga 780
gcagcattcg agttttgaaa attctttagt aagccaattt tttgtaactg tggtgcaaat 840
cttgtgtttt cttagcctaa tgaaaagtag tatagaagca atatttcata ccatgtgcta 900
tatatgtgtg cgcagatgtg tgaacataaa atcacatata cacatatata cacatgtaaa 960
aatatacata tatatatatg cgtgtgaagt ggaaagctta ccttttccta tctagattta 1020
agaacctatt ttagacattt gttatgtttt gtgaaaagaa tgttctatct gcaacaaaac 1080
atttaattct tactgtatct ctggctgttt aatgaggacg tttcacatta aatggtaaaa 1140
cacatggaag atgttagaat gtagtaatta ttttaagtaa cgttcaccca catattcctg 1200
aagtttgctt tgtgcctccg agtattatct aattaaagaa gtgttttatg tttgcagaat 1260
ctttgtcact gtactagga tgtgggtgaa tatcatttaa aaaaatttaa aacaacaaa 1319

```

&lt;210&gt; 600

&lt;211&gt; 973

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (746)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (942)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 600

```

ctcacctccg agagctagac tttggccagg catggctaaa accactgggtt aacgatgtga 60
cagttatgat cttggagatt ggaaatcttt cttccacatt agagttcttt accttaattc 120
cttattctga aaaattgtaa gattttatga aggtttgaat actgaagcac agttctgctt 180
tcaaaaatta aaattcaaac ttgaaaaagc tgtttaacct atggaagata tcatttagta 240
agatgtaaaa gattttttta atctacactt cagtttatac atctttatca ttatcaatac 300
tatataagtt actgtgagca ttttagagaa ttccataaag gtactatgag tgtgtctgta 360
tgtgtgtgta tatatagcat tgtatttaat catagactaa atttaatttg atatagaaat 420
actactttac ttgtacatta aggtcataat ttctgtgga ctcttttata ttttaattaat 480
ggggattata gtcttccttc ataaatgcat ttaaacctga aattgaacac cagtgttttt 540
ctttttctac ttatgggaag ttgtctgctt ccccttttag agaaaacagt atttttatat 600
tttgttaaaa tattaactac tttatgccta cacactatgc tgtagatact gatcataatt 660

```

420

```
cttgggtgtt cacaaacact cctagwgcct cttttttggc ccgttgaaag tgttggtatt 720
actactttca ctacagagcc tttggnccct taataatgct gaggtgggct gatccttccc 780
mtttctgtcy tcgggtcatt ctgggtaggg tcttctcctc cactgtcaag gtaaggcaat 840
caggttccgt gacaggggat tgggacatat ggaacaaatt aaggtgggat acacacagtg 900
aggaaaggtt acatggcatt ctatggggaa ccaactactg tncaataaca tctgatgtta 960
acatggcaca tta 973
```

&lt;210&gt; 601

&lt;211&gt; 1473

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 601

```
ttgagactga ctactgagtc taccttttta atcaagccta acatgaatgg gtcctcaaaaa 60
gtaatgaatg taattgtact ttttgatgtg cctctgcact tggcttggtg agtcatcata 120
aatagctgtt aaatatgtga ctttacagat tttgatatgt tcagattgta aaaaatgaat 180
agtttatttc attaattgat gggcagtcac gaatctccct cccttcagta gggctgacac 240
ttaggagtta ggtcatgggt gtgggtactt ggcattggta atcagatttt gttctggtca 300
gaatttgccc aagatcaata cccagcagaa actggagtta ggctataaaa aaccattcat 360
gtttccgagt gatcatttca gtcagcgatt catgtttttac agtgtttagt tgttgattat 420
tagaaaaagt aatattttct tccctttatg attacatcat tataaatcaa gtccttccat 480
gaacacattt aaggtgtgtg gagatgagat gtctgaatcc atttggggat gggctgcatt 540
tttggggaac tctatgcctg tccagtgaag agtgcctaaa acattaatta tagatcaaag 600
atgttctgtt gagggacaaa gcttgatggt catcaaacac aaggctttgt aaaaatacga 660
ccacctattc cacttactgg atctgtcagg tgtgtaaaac ttctctcgcc agttcatcat 720
gcttccatga gccctcagga ctgggatttg agccttctct gctctttatc ccttggggca 780
gacatggaac catctctgag ggaccagggt gatgctgaag ctcacccagt cagggcccct 840
ctcctagctc cttttacact gaaattaatc tgaaagcttt catagccaag gctttgctag 900
gtgctattat tccagctggc caaagagaag tcttgggcca gattgggatt ctcaatggat 960
tttatagaca taattccctt gcaaacttaa aaaaataaat aacccttact ttataggact 1020
aattgtttga attgtatctt tctctgtatg ttaaaccaga tttaaaacta ttttataacc 1080
acaatatgta atcagagcaa tatagtgttt tcagatatat accttgtttt ataccttatg 1140
taggtgtcct acataagggg ggcattgcca ctggctgtgg taaaatttaa tcctcattgc 1200
tttgggagtg acttaaggcc ttttgaagtg gagcttttgc actttatact ttttctgtga 1260
actatgataa ctatatattg tattaaagct gtaagtggca ttttcagcaa atgaatatgt 1320
acatgtttgt gtctatttcc aaaatgattt ctgaactatc tgcagtgaaa atgtatctga 1380
tggattgtag agcaaagcac attgcctaaa ttcatttgtt aatgaattgg gtaccattgt 1440
tattaaaaat gcgtaaagta aaaaaaaaaa aaa 1473
```

&lt;210&gt; 602

&lt;211&gt; 481

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (480)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

421

&lt;222&gt; (481)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 602

```

gccttcacat tgggtcttcg gggcttaaaa gcatatcatt cctgattctg cagctgggtc 60
tctctccaag cactagcaaa accctgccct aggagcccc agactctgag agcccatgac 120
caaaaagaaa aggaaagcca agttggggaa gaacagggcc cccaactcca cagccctcca 180
ctctssccag agggcccacc ctgggctgcc tggaaacccc taaagtggcc acccccgcaa 240
cacagtagtg gggcagttcc tggcagcgcc tgcagcccat gggctggctc tgtaccgcga 300
gccccgcaa gcgtctgtta tcttatttac tggaaatctgc acagccaggc tctagctcac 360
cggtgactaa ggagctgcag ccattattac caggcagatg gcagactccc taaaagcaga 420
cattaacaa taaaatgcc ccacatacct tgcccacaaa ataaatcaa aacaaaccan 480
n 481

```

&lt;210&gt; 603

&lt;211&gt; 1667

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 603

```

gggaattatt tcacaatact gatagtactg ggaattgtka aataattcct ctgaaagata 60
agaatcactg gcttctatgc gcttcttttc tctcatcatc atgttctttt accccagttt 120
ccttacattt ttttaaattg tttcagagtt tgtttttttt ttagtttaga ttgtgaggca 180
attattaaat caaaattaat tcatccaata cccctttact agaagtttta ctagaaaatg 240
tattacattt tattttttct taatccagtt ctgcaaaaat gacctataaa tttattcatg 300
tacaattttg gttacttgaa ttgttaaaga aaacattgtt tttgactatg ggagtcaact 360
caacatggca gaaccatttt tgagatgatg atacaacagg tagtgaaaca gcttaagaat 420
tccccaaaaa aaaaaaaaaa aaaaaaaaaa gmaaaactggg tttgggcttt gctttaggta 480
tacttgattt agaatgagtt taacattagc taaaactgct ttgagttggt tggatgatta 540
agagattgcc atttttatct tggagaagact agtggtaaaa catccaagag cactaggatt 600
gtgatacaga atttgtgagg tttggtggat ccacgcccct ctccccact ttcccatgat 660
gaaatatcac taataaatcc tgtatattta gatattatgc tagccatgta atcagattta 720
tttaattggg tggggcaggt gtgtatttac tttagaaaaa atgaaaaaga caagatttat 780
gagaaatatt tgaaggcagt acactctggc caactgttac cagttgggtat ttctacaagt 840
tcagaatatt ttaaacctga tttactagac ctgggaattt tcaacatggt ctaattattt 900
actcaaagac atagatgtga aaatttttag caaccttcta aatctttttc accatggatg 960
aaactataac ttaaagaata atacttagaa gggttaattg gaaatcagag tttgaaataa 1020
aacttgacc actttgtata cactcttctc acttgacatt ttagctatat aatatgtact 1080
ttgagtataa catcaagctt taacaaatat ttaaagacaa aaaaatcacg tcagtaaaat 1140
actaaaaggc tcatttttat atttgtttta gatgttttaa atagttgcaa tggattaaaa 1200
atgatgattt aaaatgttgc ttgtaataca gttttgcctg ctaaattctc cacattttgt 1260
aacctgtttt atttctttgg gtgtaaagcg tttttgctta gtattgtgat attgtatatg 1320
ttttgtccca gttgtatagt aatgtttcag tccatcatcc agctttggct gctgaaatca 1380
tacagctgtg aagacttgcc tttgtttctg ttagactgct tttcagttct gtattgagta 1440
tcttaagtac tgtagaaaag atgtcacttc ttcctttaag gctgttttgt aatatatata 1500
aggactggaa ttgtgttttt aaagaaaagc attcaagtat gacaatatac tatctgtgtt 1560
ttcaccattc aaagtgtgtt ttagtagttg aaacttaaac tatttaatgt catttaataa 1620
agtgaccaa atgtgaaaaa aaaaaaaaaa raaaaaaaaa aaaaaaa 1667

```

&lt;210&gt; 604

&lt;211&gt; 1193

422

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 604

```

ctaacgtatt catgccttgt atttgtacag cattaatctg gtaattgatt attttaatgt 60
aaccttgcta aaggagtgat ttctatttcc tttcttaaag aggaggaaca agaagatgag 120
gaagaaatcg atgttggttc tgtggaaaag aggcaggctc ctggcaaaag gtcagagtct 180
ggatcacctt ctgctggagg ccacagcaaa cctcctcaca gccactggg cctcaagagg 240
tgccacgtct ccacacatca gcacaactac gcagcgctc cctccactcg gaaggactat 300
cctgctgcca agaggggtcaa gttggacagt gtcagagtcc tgagacagat cagcaacaac 360
cgaaaatgca ccagccccag gtcctcggac accgaggaga atgtcaagag gcgaacacac 420
aacgtcttgg agcgccagag gaggaacgag ctaaaacgga gcttttttgc cctgcgtgac 480
cagatcccg agttggaaaa caatgaaaag gcccccaagg tagttatcct taaaaaagcc 540
acagcataca tctgttccgt ccaagcagag gagcaaaagc tcatttctga agaggacttg 600
ttgcggaaac gacgagaaca gttgaaacac aaacttgaac agctacggaa ctcttggtcg 660
taaggaaaag taaggaaaac gattccttct aacagaaatg tcttgagcaa tcacctatga 720
acttgtttca aatgcatgat caaatgcaac ctcaaacct tggctgagtc ttgagactga 780
aagatttagc cataatgtaa actgcctcaa attggacttt gggcataaaa gaactttttt 840
atgcttacca tctttttttt ttctttaaca gatttgtatt taagaattgt ttttaaaaaa 900
ttttaagatt tacacaatgt ttctctgtaa atattgccat taaatgtaaa taactttaat 960
aaaacgttta tagcagttac acagaatttc aatcctagta tatagtacct agtattatag 1020
gtactataaa ccctaatttt ttttatttaa gtacattttg ctttttaaaag ttgatttttt 1080
tctattgttt ttagaaaaaa taaaataact ggcaaatata tcattgagcc aaatcttaaa 1140
aaaaaaaaa aaaaggtcga gccggccggc taattagtag tagtaggcgc cgc 1193

```

&lt;210&gt; 605

&lt;211&gt; 438

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (386)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (430)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (438)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 605

```

aatgccaaaa gtacttcccc tgtttccaca agctcggtta catcctcagc ccttgagaag 60
cccagtcagg aagcataacc tgatagcttg ggctgatgca atmacagaaa ctctggcctg 120
ctgtagcttt tgttctgctt aaagtgcagg cagagcagag cagagcagta attggctgtg 180
aatgaaaggg gattgtcaga atgagcctaa gttccggwtc taccaccgca gtttcgtatt 240
tgggccctgt tttaagccag ggtggctggg tgggtaaggt catgtgcgac ctcaggaggc 300

```

423

```

tgtcttgtca cctccctcat gtcaatagga agggaggtat tctccctcct ccagaatata 360
caggataatc tgtcttgctt gctaanagca ttcacctttg acctttgcat tctttgggtc 420
tggagatgtn tatgatcn                                         438

```

```

<210> 606
<211> 2674
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (75)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (206)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1782)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1923)
<223> n equals a,t,g, or c

```

```

<400> 606
gttcgscgc acagcagccc gagcgccccc ttccrgagc tcccctccgg agctgggac 60
caggcgcgta gmgnnatccc aggatcctgg gtgctgtctg ggcccgtcc ccaccatgac 120
ctcctcgggg cctggacccc ggctcctgct gctgctgccg ctgctgctgc cccctgcggc 180
ctcagcctcc gaccggcccc ggggcngcag acccggtcaa cccagagaag ctgctgggtga 240
tcaactgtgg cacagctgaa accgaggggt acctgcgttt cctgcgctct gcggagttct 300
tcaactacac tgtgcggacc ctgggcctgg gagaggagtg gcgagggggg gatgtggctc 360
gaacagttgg tggaggacag aaggtccggg gggttaaagaa ggaaatggag aaatacgtg 420
accgggagga tatgatcatc atgtttgtgg atagctacga cgtgattctg gccggcagcc 480
ccacagagct gctgaagaag ttcgtccaga gtggcagccg cctgctcttc tctgcagaga 540
gcttctgctg gcccagagtgg gggctggcgg agcagtaccg tgaggtgggc acggggaagc 600
gcttctcaa ttctggtgga ttcctcggtt ttgccaccac catccaccaa atcgtgcgcc 660
agtgaagta caaggatgat gacgacgacc agctgttcta cacacggctc tacctggacc 720
caggactgag ggagaaactc agccttaatc tggatcataa gtctcgatc tttcagaacc 780
tcaacggggc tttagatgaa gtggttttaa agtttgatcg gaaccgtgtg cgtatccgga 840
acgtggccta cgacacgctc cccattgtgg tccatggaaa cggtccact aagctgcagc 900
tcaactacct gggaaactac gtcccaatg gctggactcc tgaggagggc tgtggcttct 960
gcaaccagga cggaggaca ctcccggggg ggcagcctcc ccccgggtg tttctggccg 1020
tgtttgtgga acagcctact ccgtttctgc cccgttctct gcagcggctg ctactcctgg 1080
actatcccc cgacagggtc accttttcc tgcacaacaa cgaggtcttc catgaacccc 1140
acatcgctga ctctggccg cagctccagg accacttctc agctgtgaag ctcgtggggc 1200
cggaggaggc tctgagccca ggcgaggcca gggacatggc catggacctg tgtcggcagg 1260

```

424

```

accccgagtg tgagttctac ttcagcctgg acgccgacgc tgcctcacc aacctgcaga 1320
ccctgcgtat cctcattgag gagaacagga aggtgatcgc ccccatgctg tcccgccacg 1380
gcaagctgtg gtccaacttc tggggcgccc tgagccccga tgagtactac gcccgctccg 1440
aggactacgt ggagctgggt cagcggaagc gagtgggtgt gtggaatgta ccatacatct 1500
cccaggccta tgtgatccgg ggtgataccc tgcggatgga gctgccccag agggatgtgt 1560
tctcgggcag tgacacagac ccggacatgg ccttctgtaa gagctttcga gacaagggca 1620
tcttctcca tctgagcaat cagcatgaat ttggcgggt cctggccact tccagatacg 1680
acacggagca cctgcacccc gacctctggc agatcttcga caacccgctc gactggaagg 1740
agcagtacat ccacgagaac tacagccggg ccctggaagg gnaaggaatc gtggagcagc 1800
catgcccgga cgtgtactgg ttcccactgc tgtcagaaca aatgtgtgat gagctggtgg 1860
cagagatgga gcaytacggc cagtggtcag gcggccggca tgaggattca aggctggctg 1920
gangctacga gaatgtgccc accgtggaca tccacatgaa gcaggtgggg tacgaggacc 1980
agtggctgca gctgctgcgg acgtatgtgg gccccatgac cgagagcctg tttcccgggt 2040
accacaccaa ggcgcggggc gtgatgaact ttgtggttcg ctaccggcca gacgagcagc 2100
cgtctctgcg gccacaccac gactcatcca ccttcacct caacgttgcc ctcaaccaca 2160
agggcctgga ctatgagggg ggtggctgcc gcttctgcg ctacgactgt gtgatctcct 2220
ccccgaggaa gggctgggca ctctgcacc ccggccgct caccactac cacgaggggc 2280
tgccaacgac ctggggcaca cgctacatca tgggtgctct tgtcgacccc tgacactcaa 2340
ccactctgcc aaacctgccc tgccattgtg cctttttagg gggcctggcc cccgtcctgg 2400
gagttggggg atgggtctct ctgtctcccc acttcttgag ttcattgtcc gcgtgcctga 2460
actgaatatg tcaccttgct cccaagacac ggccctctca ggaagctccc ggagtccccg 2520
cctctctcct ccgccacag gggttcgtgg gcacagggt tctggggact ccccgctga 2580
taaattatta atgttccgca gtctcactct gaataaagga cagtttgtaa aaaaaaaaaa 2640
aaaaagggcg rccgctcgcg atctagaact agtc 2674

```

&lt;210&gt; 607

&lt;211&gt; 1609

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1593)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 607

```

cgggtcgacc cacgcgtccg cggacgcgtg ggtgtcgatg aaatcaagag tgtgatgttc 60
tagttatttt tttttatata tttttttaa tgttcaatat tcaactattg aaacaaatgt 120
acatctgtga actagctaaa atcatcttat gtaccactaa tatgcccagc acattttgtg 180
aaacagtcct gatttggcct ccaagggtat ttattgaact accagcagta tctaggagac 240
cacgaaggaa taccacgaag gaatttatgc tccagtgtt gccataattt gtctgagaag 300
gaatctgtta aataaaagct tttatcctct aacctttacc ttcacagac cttataaaag 360
gtcaaatggt gatcttaagt ttttttagtca caaatcttac ttattcagta ttagtgcgaa 420
gagtagaata ctttcaagta agcctaaact tacatgaaam caaattacat aaatctagct 480
ctgagaatag gaaattagtg acaagatcaa tctgtaagat gttgagcact tatctgaagt 540
aaatgggtaa tgagtttcac atcttataaa tacaagttag catgtgtttt ctcaagagtc 600
caagggtttt cattattgga ctacagcttt aatcttctaa atgttattcc ccaagattaa 660
agagcatctc aagttagatc accaaagatc aaaagctaaa accagaagta tttttgtcat 720
tgtgggtggt gtagtggtac taattgccta gattttttaa gggaaacatt tttttcactg 780
ggttgtttcg ttgaaaaaaa tagaagcaga aacttgccca aagtcacagt ggtcaaactg 840
gaaattgcac caaaacttgg catactggtt ctgaaatcca tagtttttagc cttatgtat 900

```



426

&lt;400&gt; 609

```

acgcccgcag gtaccggtcc ggaattcccg ggtcgaccca cgcgtccgaa ggaagaaggn 60
gggaaacctc aaatgaattc tgaaggggag ataccttccc tgccatcagg cagccaatct 120
gcaaaaccag taagccagcc caggaaatca acccagccag atgtttgtgc ctctcctcaa 180
gaaaagccac tcaggactct gtttcaccaa cctgaggaag agatagaaga tgggtggactc 240
ttcattccaa tggaagacaa gacaatgaag aaagtgagaa aag 283

```

&lt;210&gt; 610

&lt;211&gt; 498

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (11)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (411)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (417)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (464)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 610

```

aaagcccaac ncccccgtaa acccagaatc tcccatatgg taacctgtgt gatgctccgg 60
attctcctcg cccagtgaag gcatcaaggg aagatagtggt tttatttagt cctattcgat 120
cctctgcttt tagtcctctt ggaggctgta ctccagctga atgtttttgc caaacagata 180
ttggtggaga taggattcat gaaaatcatg attctgttta ttacacctat gaagactatg 240
caaaaagcat ttcattgtgaa gtactaggct cagttcttcg taccaccat actaatacc 300
tatcaaatat taacagtatt aaacatggag aaaataaaac tgtaactttt aagcatggaa 360
accttgatca aaaaaataaa tctaaaaata aatccttaat gaaaaaaaaa nattaanaaa 420
aaagggcggt cgctctagag gatccaagct tacgtacgag tgcntgagac gacatagctc 480
ttctatagtg tcacctaa 498

```

&lt;210&gt; 611

&lt;211&gt; 1069

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (176)

427

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1060)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1061)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 611

```
cctttgaaat acccctcact aaaggggaaca aaagctggag ctccaccgcg gtggcggccg 60
ctctagaact agtggatccc ccgggctgca ggaattcggc acgagcggca cgaggtatcc 120
acagggccac agcgacacca ctgtggctat ctccacgtcc actgtcctgc tgtgtnggct 180
gagcgtctgt tctctcctgg catgctacck caagtcaagg caaactcccc cgctggccag 240
cgttgaaatg gaagccatgg aggcctctgcc ggtgacttgg gggaccagca gcagagatga 300
agacttgga aactgctctc accacctatg aaactcgggg aaaccagccc agctaagtcc 360
ggagtgaagg agcctctctg ctttagctaa agacgactga gaagagggtgc aaggaagcgg 420
gtccaggag caagctcacc aggcctctca gaagtcccag caggatctca cggactgccg 480
ggtcggcgcc tcctgcgcga gggagcaggt tctccgcatt cccatgggca ccacctgcct 540
gcctgtcgtg ccttggaacc agggcccagc tcccaggag agaccaaagg cttctgagca 600
ggatttttat ttcattacag tgtgagctgc ctggaatata tgtggtaatg aaataaaaac 660
cctgccccga atcttccgtc cctcatccta actttcagtt cacagagaaa agtgacatac 720
ccaaagctct ctgtcaatta caaggcttct cctggcgtgg gagacgtcta caggggaagac 780
accagcgttt gggcttctaa ccacctgtc tccagctgct ctgcacacat ggacagggac 840
ctgggaaagg tgggagagat gctgagccca gcgaatcctc tccattgaag gattcaggaa 900
gaagaaaact caactcagtg ccattttacg aatatatgcyg tttatattta tacttccttg 960
tctattatat ctatacatta tatattattt gtattttgac attgtacctt gtataaacia 1020
aataaaacat ctattttcaa aaaaaaaaaa aaaaaaaatn nctgcggcc 1069
```

&lt;210&gt; 612

&lt;211&gt; 899

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (116)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 612

```
gctttgtatt gcttatattg catctgagat tgtttgatc ttttttcctt gactagtctt 60
gctagagggt tatcatattt attgtttttg ctttacaag aagccaatat ttttgnnttt 120
cttctttgtt atattttctc tattttgttg atttcagctt tttcttttct atgttaatat 180
gtcatattat tgtagtggat ggtagctct tcaaatcttc aactttctat tctgatttac 240
atatttaaag ctatagattt ccatgataat gctactttat ctcttgctgt agttttctat 300
gctgggtaac aaattaccac aggtttactg gtttataaca gcataatttt attatctcac 360
aatttcttgg gggttaagagt ttcagcatgg cttaactggg tctcacaagg ctgcagtga 420
gtcagctgaa ctryrttgct atctggagct cacagttctc ttctaaatta atcagattgt 480
```

428

```
tgataaaact tagttccttg aagctgtaga actgagggtcc tcagctactt agggctgctc 540
ttttatataa gcagtgtaac gtgacatgcc tttttaaggt cagcagaact tctgactaga 600
atctgtttca gagaaggcca gaaagagttc acttggttag gtcagagwca cctgggtag 660
tctccctttt gattaagtca gagtcaacta aataggcacc ttaattgcat ctgcaaaatc 720
ctttcacttt tgccatattc tcttactaaa tgtaacaggc gttgtccaca caaaggtag 780
gatatcgggc ttggaaagga tttcaggaac catcttagaa ttctgcctac tactaactcc 840
attctacaag tctcaatata tagcatttta gttattcact aactgcaaag ttttttatt 899
```

&lt;210&gt; 613

&lt;211&gt; 532

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 613

```
gaacactaaa cagactattt aacttgaggg taataaactt agaataaaat tgtaaaattg 60
tatagagata tgcagaagga agggcatcct tctgcctttt ttatTTTTTT aagctgtaaa 120
aagagagaaa acttatttga gtgattatTT gttatttgta cagttcagtt cctctttgca 180
tggaatttgt aagtttatgt ctaaagagct ttagtcctag aggacctgag tctgctatat 240
tttcatgact tttccatgta tctacctcac tattcaagta ttaggggtaa tatattgctg 300
ctggtaattt gtatctgaag gagattttcc ttcctacacc cttggacttg aggattttga 360
gtatctcgga cctttcagct gtgaacatgg actcttcccc cactcctctt atttgctcac 420
acgggggtatt ttaggcaggg atttgaggag cagcttcagt tgttttcccg agcaaagtct 480
aaagtttaca gtaaataaat tgtttgacca tgaaaaaaaa aaaaagtcga cg 532
```

&lt;210&gt; 614

&lt;211&gt; 511

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (460)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (503)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (508)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 614

```
gctttgaaac caattgcaga ttgcttggtt ttatacaaac tttgattagt ctttggcagt 60
agaaggcagt ttgctaaagt ggctttacac ttgggattat gctgtttctt tgggtgataca 120
taaagttcac attttttttt ttataacttc atggtcaaga gcttggaag aaagcccaag 180
tctcacttga ggacctgatg taattgcttc tctttgagct ccgaagaaaa gattgaggag 240
ctgctctttt gatttgggga gtgagcaggt taagtgtctt tactttactt tgscacccty 300
gtacagacaa agtccggtta caaaggcggg taactccaat gtgctattct ttttttytta 360
```

429

ccagctttac tggggataat gcacatactg tacaattcac ccacttaaag tgtacaattc 420  
 agtggggtttt agttttattca tgggggttgt gcaacccttn accataaatc tatttttagg 480  
 ggcacttttc atcatctcag gngngaanc t 511

<210> 615  
 <211> 505  
 <212> DNA  
 <213> Homo sapiens

<400> 615  
 gctcggcgag atccagtcga cagcttgctt cactcttaga acagcggcat cctctatttg 60  
 gtctcgcacg gggaaacttg tggggtaggg gagaggtgtt agagctttga aaaagctttg 120  
 cctctcggag gagtcaaagg ggcagtaact gtatggggtg agaggaaggc ctgcgaaata 180  
 aaaaggcaaa ggaaccgttt gaggaggcta gttgccttct cggggccggt gtgtgtgcgg 240  
 gggtagtggt aagggggagg aaggagcccg kgagcccga ggaccctccc ggaggtgcgg 300  
 gcctgaaatt ccgctgggtg ccgggaggct ccgccctccg gactactgac ggccttcgca 360  
 gccaatgcgc agccaggacc tcgcgttcgg gagggcgggt acttcctact ccagccctgg 420  
 gctcggagaa ggccgcgtta gttctttttc tagggatgtc tgcggaaggg gcgccaggct 480  
 gagggccagc ctggagaaag aaaga 505

<210> 616  
 <211> 778  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (226)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (253)  
 <223> n equals a,t,g, or c

<400> 616  
 taggggttcta gggccctgtt cctggggact tgaaggcgggt tttacatact ggtcagacac 60  
 ggctggaggc caaggtcaag ttgaaagttg cagtccagcc agcatgagaa ctgccatgcg 120  
 agcgtagaga cacaggcagc agcaaaaggc ccattgccca catcccctca ctcttaattt 180  
 tctctctctt tttaaaattc tcgcctctga ctgttcgggt gccanaatt ttttggtgcc 240  
 ttctgtgggt ttntggggcg gtgtttaccg actcttctct gcctccgccc tgctcagcca 300  
 gggcttttag cctcttcgggt tttccggcca gaccggaaa aacgaaaaca cagcttgggg 360  
 agccccact agccggcgcc tgtgccagct cacctctggc catggcgag ctgccgggtgc 420  
 acacggcggc caaggccagc tccacattct tccctcccc tccacttca ccgtagcccc 480  
 gaaccctgcg cgcagagaaa ggggtctcagc tccacagacg actgggtccc tcctcaccaa 540  
 aaatgggtgag acaagatttc atctgtcggc cgaggagcca caagcagggt tgtctgagag 600  
 ggatgggtgct gggggaaggc tttggattgc atctcaaatt aagctttgct ccttaaattgt 660  
 ggcgtctcgc caagaaaaag cttggggcct gaattcttga gatattatgg gcaccttatt 720  
 gatcaaatat atctggactt ttttttagtt cccgatgtgt ccctatcatt aaaaaaaa 778

<210> 617

## 431

```

ctagggctca tgccactttt aatgtcattt tctaaaggaa aatcttatct atgatatttt 720
cccttataag agatagttgt tttgagtagg gttttttaa agataaagg agtaggaaat 780
tttttaaagc ctaaatatca aattcctttc cctttggagt tgggggaagk aatgaagggg 840
gagcaacttg ctctttcata tgagttggtc atagcatgta agaaccaatc ttgaaatc 900
gttttttttt taatggctta taatgtattt ctagaaatac tttgtactta aaatgataac 960
agtttgtatc tttttgtcca tataaagata ctttataaat aaaaaatta gcattgtaaa 1020
taatgttaat atgtatttat acaaaataaa tttactataa tataaaaaaa aaaaaaaaaa 1080

```

<210> 620

<211> 823

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (646)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (699)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (717)

<223> n equals a,t,g, or c

<400> 620

```

ggagggtttcc tttgtccatt aagcaagccc caagaaccag aacccttttg ctgcttttct 60
tacataccta acagctctcc agtcatgatg accaagggtg ttcttcaatc aaatgtgttt 120
gwgggatttt cagtcgcaa atgaagtgtc ctctaataaa tgggacacca tgataaata 180
gtatttatat ttagatgcca aagtatggcm aattatttcc aaatgataac taaaatggg 240
aattttcgat attctacctt ttttatagaa ccagctcact tttcatttct ttttcatttt 300
gaattaagaa aattgktgag gatgtgggtg gttccagtgt gtggaatgga aaggaaactg 360
cagaatagtg tctgctcccc attcagaggg actgcttctc gtgcccccca gaccggggc 420
ttcgacagct tctccacatt ccacacagat gcctaggagc agcgagttgg tatatgaaa 480
gtctcccacc ttttctccta aaacttctct cctttctctc cataaaaaga aaaggaaagg 540
aacaaaagaa aaacattcag tttttctttt tctgaaaaag gtaagtcctt tcctgaagtc 600
atcaaatgaa acattatctg gaaattagtt tctaagtgtg tatatnaaga aatacttaaa 660
tataagttcc tgcagtattt attagatagt tgtaactgna aactcacctc ctagtanaa 720
agagtttcag gttaaatact ggaacatata taggcagtca aaaatactac tttaaatgca 780
ttcaccta ataaagccat ggtttaaacac tttttaaggc caa 823

```

<210> 621

<211> 720

<212> DNA

<213> Homo sapiens

<400> 621

gctctaattg aggaaacagt caacatgcaa aaatagatgt gtaatgtaag aagagtgatg 60

## 432

gaaactctag gaaacaatca aaaggaaatg ctagaataa taaaaatcac tgacataaat 120  
aaagaatgtc ttcaataggt tcatcaacag aacaagtttg aggaaagaat gagtaagctt 180  
gaagataagt caacagaaat aatttcgaaa gtataatata catctatttg gaataccaga 240  
aggagaagaa caagaacaag aaactaaaga aatatttgaa gtaacactgt cagaggattt 300  
tcccaaatta accacagcaa mtcacaagtc aagaagtaga gaacagtaaa caggagaaat 360  
acaaaaacaa ttatacacia acttcagaaa accaaagaca aaaagaaaat cttcaaagga 420  
gtcagagaaa aagtaacctg acttacagca aaacaggaca agaattaaat tagacttccc 480  
atcagaaaca cagaagcaag aagactggag tgaagtattt aaatgctaaa ataaagaaaa 540  
aaaatacaaa cttgagaaat aaagacttcc tcagacaaat gctgagggaa ataataccca 600  
tcagaccttc cctgtaagaa aatattaaaa gaagttctca cggaaaagga aggtgataaa 660  
gttcagaaac tcaaactctgc gtaacaaagg aagagtgcc aagaaggaat aaataaaggt 720

<210> 622

<211> 332

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (332)

<223> n equals a,t,g, or c

<400> 622

gccaccagta cctagccaaa gttagtttta atgtgagagt caaggactac agtggcatgc 60  
tgaggtaaca actgcaggag catcgaggta acagcaaaaa tcttttactc caattgggtc 120  
aatccagtta accatgtaag aaactcctca cctaggggtca gtatgttact tctgtatttc 180  
tgcaagcaca atccactgac ataaaagtct aataattaga ctttattgta agtctaattgt 240  
atcttgtaca tgataaaatg tatgaacttt ggatcaatat ggcaagctga agacacctgt 300  
catgtggggg gactattttg tttgggttct an 332

<210> 623

<211> 510

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (76)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (471)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (491)

<223> n equals a,t,g, or c

<220>

433

&lt;221&gt; misc feature

&lt;222&gt; (501)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (504)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 623

```

taaggctggt tcagagtctg agttgacttc tctttaatct acctatagaa cttttagggt 60
tcaaaaaata cttttnaaat gactttttgg gtttggaaag tacctttaat acatttaagc 120
tagtttttct cctggaaata tttagaattt cttccttaat tggcaacctt tatagaagtc 180
tggttaagatt tgtcgcaaag atgtgccaca gatggacaca aatttcccat tcgggagcaa 240
tatcttacca cagtgggtggc taaatgctag ggacaaaata caaggccgga actttccttc 300
cctcagatac cttgtgctgt ggtgttttgt tgccactttc tccctctcat tttcaattat 360
atgcacaatc ttccttttct agagtatgac tttggccaga tgactcacct gatgccacct 420
aagggcattg cctggccagg tacattttctc tggctccagc cttggctaag ntgatgacct 480
gagtcgatct ncacattcat ntentgaacg                               510

```

&lt;210&gt; 624

&lt;211&gt; 653

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 624

```

gtttttttat ggaaagaaca taaacatagt tttctaattt ggagaaatcg gtcttaatgc 60
aagtaggcat tttaaaatta cttttatgaa ttatttttag accctacata atctttttta 120
ttctgcaatg ttaaacagtt tctctagaaa atctgttttt gtttccctagt gactattaaa 180
ctattctctc ctacaacagt aatattttatg ctataaattt aaatcatcat ttttgttttg 240
attgattata agatatatgt tttattatca tgtagcctag tttaagagtc ctcaatatwt 300
ctgaagtttt agtgattctg ctgagagaga gcatagaaaa aaataagaaa aaaaaaacca 360
acctagtatc tgttgktcag tagattgtag gtacttctgt ttatagaaat aataagggga 420
aaatgggtat tttagaatga ggatcttttg tgktgkacct cttgcttctc ttttatttga 480
ataataaagg raataacatc aaattaatgt ttarccact ttartatgga tattgaagtt 540
aaaatgtcat tcatttgcat ttatttagga aaagaagata tgcttcttaa acaaggtcag 600
atgtatatgg cagactcaca gtgtacttcc ccagggtatc caggcccaat gca          653

```

&lt;210&gt; 625

&lt;211&gt; 421

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 625

```

gagacagagc aagatgcctt caggaggaat ctctggccgt cttcttttgt aatatccaaa 60
gagcttttgt cagcgttgat atcaaagcgg tgtgaagaaa acataaggcc ataagactaa 120
tctctggaga gctgcacact gaaggggaac mtaagtctt gagtccctgg agtaccctaa 180
gtktggwttc agagagggtg ccattcatga gcaacactgc tagccattag tggccagcaa 240
gaaggggagt gaaaggagta tcttgtatag ggtgacttgg gtaatatgaa attgctgtca 300
tcaaggttta tcaaaamacc aaagggtaaa tattacatgt aggcaatgtg aggctgcccc 360
aaatgggtgtg tttcccagga acttgattca actctgagaa taaatgcatg agtactgaga 420

```

434

a

421

<210> 626  
 <211> 500  
 <212> DNA  
 <213> Homo sapiens

<400> 626  
 tcgaaccttt tggatctctg tcagaaatga atgtttatctt ctttcaagtt ttatcaagta 60  
 ttaatacgtt ttattttatat tcttttaaat gttttattca gtagttctgt gaacttcaga 120  
 ctttggtgtt cagcctaata gtatgcttct gtaacttcta cacattttat aagaactcat 180  
 tcaaagttgt agtccctacca tagtggttca gggttccttg ttgtgtacac ttttactata 240  
 atggcaaaat gtttcaaaat cattcagctt tttaaagaaa cttattatgc aaaagacact 300  
 cttgaaatgc tgtgcatttg agctgaagt aaagaatttg tttcatgttg tactttgcat 360  
 tatttttaagt tttcacatct ttaatatgct tttctatgct aattatatta gaaatctata 420  
 aatataagtg gtttctttgt ttaaactagt cattaaaaat taggttgaaa atgaaaaaaaa 480  
 aaaaaaaaaa aaaaaaaaaa 500

<210> 627  
 <211> 545  
 <212> DNA  
 <213> Homo sapiens

<400> 627  
 gttggtacgc ctgcaggtag cgggtccggaa ttcccgggtc gaccacgcg tccgctctgt 60  
 tcctctgtgg ctactctccc atcttaaaaa cgatccaagt ggctcttttc ctccctccctg 120  
 cccctaccc cacacatctc gttttccagt gcgacagcaa gttcagcgtc tccaggactt 180  
 ggctctgtc tcaactcctg aacccttaaa agaaaaagct gggtttgagc tatttgccctt 240  
 tgagtcattg agacacaaaa ggtatttagg gtacagatct agaagaagag agagaacacc 300  
 tagatccaac tgaccagga gatctygggc tggcctctag tccctctccc tcaatcttaa 360  
 agctacagtg atgtggcaag tgggtatttag ctgttgtggt tttctgtctc tttctggtca 420  
 tgttgattct gttctttcga tactccagcc cccagggag tgagtttctc tgtctgtgct 480  
 gggtttgata tctatgttca aatcttatta aattgccttc aaaaaaaaaa aaaaaagggc 540  
 ggccg 545

<210> 628  
 <211> 679  
 <212> DNA  
 <213> Homo sapiens

<400> 628  
 cccccgtttt aaaagatcag tagtctctat tcaaactttt aaaatgtcgt ggtattgtaa 60  
 caatatatct gatgaaagaa gggtacagac tcccctgaag aaccagcttt cctacgcttt 120  
 ttatttttct aacttgctta acctgatttt aaaatgactg caattccaga ctaaaaacat 180  
 gcttcagccc tgtttcaaga cattatgctt cttttaacag tccaaattag tagttttatt 240  
 tttcttctaa atctttgttt cacacttgta aaatcttggg aaggagggtc ttaaaacttt 300  
 gccaggaatt gttacccatt tccaaaaaca gtttattatg ttcaaaaacc accatatctt 360  
 tgagggactg tttgaaagg gagagggcaa cgcgggaaat aattcactct gcgcaccgga 420  
 actattgtag ttcaggactt ccagctactg tatttagatg ttgggtttga atatacagat 480  
 ttcttttcaa tacctgtaaa tatggctata ttcttgattt tgtacgggag tgtacaaaat 540  
 gacactgaaa agtaataaat atgttttgac tatattgtgc agttatttca gaactgtgtt 600



## 435

ttgaaagtct tagaatgcat aatttgcatt tgagtaagga aatttataaat acagattact 660  
gctgagattt taataaaaaa 679

<210> 629  
<211> 905  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (165)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (793)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (803)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (816)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (843)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (869)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (889)  
<223> n equals a,t,g, or c

<400> 629  
cagtcgcaag tgactcttgc aataatagca tctcactcct atctgaaaag ttgacaagca 60  
gctgttcccc ccatcatatc aagagaagtg tagtggaagc tatgcaacgc caagctcggg 120  
aaatgtgcaa ttacgacaaa atcttggcac caagaaaaac ctagnccatg tcaataaaaat 180  
cttaaaagcc aaaaaacttc aaaggcaggc caggacaggg aataactttg tgaaacgtag 240  
gccaggtcga cctcggaat gtccccttca ggctgtcgta tcaatgcaag cattccaggc 300  
tgctcagttt gtcaaccagc aattgaacag agacgaggaa ggagcagcac tgcacctcag 360  
tcctgacaca gttacagatg taattgaggc tggtgttcag agtgtaaata tgaaccaga 420

436

```

acataaaaag gggttgaaga gaaaagggtg gctattggaa gaacagacca gaaaaaagca 480
gaagccatta ccagaggaag aagagcaaga gaataataaa agctttaatg aagcaccagt 540
tgagattccc agtccttctg aaaccccgagc taaaccttct gaacctgaaa gtaccttgca 600
gcctgtgctt tctctcatcc caagggaaga gaagcccca cgtcccccga agaagaagta 660
tcagaaagca gggctgtatt ctgacgttta caaaactaca gagtaagtag tagtacctat 720
tagctaacat ccccttttct tccacatttg gaaaaatact ttgactatca aaaaacaata 780
tagattcttt tnggtttcat aanccgtgat gattnggttt ttgcactcat ggattgaagt 840
acnccttcct taaacttttg ggtcaaggnc aattacatta ccccttttnt gatgtggggg 900
ggaaa                                           905

```

&lt;210&gt; 630

&lt;211&gt; 800

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (732)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (772)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (776)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (798)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 630

```

gcagcctgga cggtcgcgag agacgttcct gtcttaggcg tcccacgaga tgctcctgtt 60
cagccctgcc gagtggaag cttggagtgg ctacggtgg atgcattgac gctgcagacg 120
ccagcaagtg ctacaaacca gagctggcct ttaactcaga ctgatggaga aggtgttaat 180
aatgcagatt agacttaaaa gtgttgaagc cattgcactg tgaacagcaa aaaaattgaa 240
gaactcttct ggcatttaaa aacaattact cagttcagca gagaagtcac tgacaaacga 300
gatcacactg actgctttgt cgttttgggt ttgtcttact cattaatgca aataagaaca 360
ttcactagca tctgtgtcgg gcctaccctc cctgggtcaaa tacagctaca gtctccctgc 420
agatacgagt tttccagaaa tgagccgatg ttttctgcga gaatcaattg gtcataata 480
atttacaaaa atgagtactg tatactatat ttgtaaactg tacactgcag atgctttatt 540
tactgaaat ttataataca cttatccatg tatatgcatg catgcatttt tgttcctgag 600
atccagctgt gaaatgttta ccagcacata aattaccagc acatgctctt ttttggttaac 660
ctactaggta aaactctcat ttattacatc aaaaaaaaaa aaaaaagggc gggccgcttt 720
agaggatcca ancttacgta cgcgtgcatg cgacgggtcat agcttcttct antagngtca 780
cctaaattca atttcacngg                                           800

```

437

<210> 631  
<211> 378  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (13)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (17)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (40)  
<223> n equals a,t,g, or c

<400> 631  
actaacgggg ctnacacnatg gaagctcatt atagggaatn ctggtacgcc tgcaggtacc 60  
gggtccggaat tcccgggtcg acccacgcgt ccgcgggagc cctttgctgt gtgctctgtc 120  
cagtgtcatg agacgggagc cctttgctgt gtgctctgtc cagtgtcatg agacgggagc 180  
cctttgctgt gtgctctgtc cagtgtcatg agacgggagc cctttgctgt gtgctctgtc 240  
cagtgtcatg aggcaggtgt ttgcaaagcc agctctcggg tccgatgggg tattgctgac 300  
ctacttttct aggggaaatg ctcttaaaca ctgtaattat gcatttctaa tgaaataaaa 360  
tgtatttawr accacaaa 378

<210> 632  
<211> 602  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (529)  
<223> n equals a,t,g, or c .

<220>  
<221> misc feature  
<222> (540)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (548)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

438

&lt;222&gt; (583)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 632

```

gcccgcacca gtttgaggac ttgctatccc cgtgggaaca tcaccatgtc cgaggcacc 60
cgggccgaga cctttgtctt cctggacctg gaagccactg ggctcccag tgtggagccc 120
gagattgccg agctgtccct ctttctgtgc caccgtccct ccctggagaa cccggagcac 180
gacgagtctg gtgccctakt attgccccgg gtccctggaca agctcacgct gtgcatgtgc 240
ccggagcgcc ccttccactgc caaggccagc gagatcaccc gcctgagcag tgagggcctg 300
gcgcgatgcc ggaaggctgg ctttgatggc gccgwgtgc ggacgctgca ggccttccctg 360
agccgccagg cagggcccat ctgccttggt gccacaatg gctttgatta tgatttcccc 420
ctgctgtgtg ccgagctgcg gmgcctgggt gccgcctgc cccgggacac tgtctgcctg 480
gacacgctgc cggccctgcg gggcctggac cgcgccaca agccacgna cccggggccn 540
gggcccgnca gggttacaag cctcgggaag ctttttccac cgntactttc gggcaagacc 600
aa 602

```

&lt;210&gt; 633

&lt;211&gt; 669

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 633

```

gacaggatcac gtccctgtaa cccaatctct cggttgattg atagcagaac agctcttgtt 60
ggtctgagaa ggcaggataa gtgaccacat atttatgccca ctacctccac caggagagagt 120
ccttctccac aggcttgata aattcaatca ccaactgtgc tgcgtccct gactctgcta 180
ctcccgttct tctgtcttct ctgctccgta tctcagtctg cactgacccc agggctgggc 240
tgacatcaag atgggagccc agcccacggg ctttataaac acccaagaac cgtttcagat 300
cttctctgtg ctgatgcagg tagttttaaa ttttctcag ttcagtgat agaaaacca 360
cacaatacat cctctgccag tcttaataga atatcagagg taagaggggc ctcagagaag 420
ctctgacgca gtgctgctgg ggaagggaag tgactaacc cgggtcagcc tgccatttag 480
ggaaagagct gaggttctta cccttggtgc atgctgccac ctctccttag ccagtgtct 540
tgtacatcca cacagcacc taaggagcca tagtcacat caaagactca accctaaggc 600
ccttcaagat ctcaaagtgc cttctgaagc atcagagatt aaatattgtt caaactaaaa 660
aagtcgacc 669

```

&lt;210&gt; 634

&lt;211&gt; 405

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (330)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 634

```

gcaattttta actagggttat cctgtgaatt aaacatttta atttattttt tatcatgtat 60
gattttattta tagatgcata catatgcagt aaaagcagta aaggaagcat gagaaagata 120
aacacaaatt gatgggtggca gtgacctctg gggaaagaat tataggataa aaacaaaaaac 180
atatatactt taaaaagtat acttcgtgkt atgaaatatt ctcatgtgaa tgcatgttaa 240
aatgggratwa aagtagaata agttataata ctgggtactt agaaaccaga tattaaactt 300

```

439

acctttatta tagtggtacc tgggtgccsn tagaattaca gtactwaaag gtacaaatta 360  
tactaaaaat gatattggaa gatttgcaca tgggtgggtt ttaag 405

<210> 635  
<211> 1329  
<212> DNA  
<213> Homo sapiens

<400> 635  
agagagaaaa gcacctttga atgcagtgaa tgtggaaagg ctttcagtta tctctcaaac 60  
cttaatcagc atcagaaaaac tcatactcaa gagaaagctt atgaatgtaa agaattgtggg 120  
aaagctttta ttgggagttc atctcttgct aagcatgaaa gaattcatac tggagagaaa 180  
ccctatcagt gtcmkgaatg tgggaaaacc ttcagttatg gttcatccct tattcagcat 240  
aggaagatcc atactggaga acgaccttac aagtgtaatg agtgtgggag agcattcaac 300  
cagaacatac accttacaca gcataagaga attcatacag gagccaagcc ttatgagtgt 360  
gctgagtgtg gtaaagcctt tcgacattgt tcatctcttg ctcaacatca aaaaactcac 420  
acagaagaaa aaccctacca gtgtaataaa tgtgaaaaga cctttagcca gagctcccat 480  
ctaactcagc atcaacgaat tcacactggg gagaagccct ataagtgcaa tgaatgtgac 540  
aaagccttta gccggagcac tcacttgact gaacatcaga atactcatac tggagagaaa 600  
ccttataact gtaatgaatg cagaaagact tttagccaga gcacatatct cattcagcac 660  
cagagaattc attcaggaga gaagcctttt ggatgtaatg attgtggaaa atccttcaga 720  
tatcgctctg ctctcaacaa acatcagaga ctgcatcctg gcatatgaca attctaggaa 780  
catcataaat tttaggggaga tatttacttt agtttgcct tttgttaagt actgaagaat 840  
cagagtggat tttagaaactg ccttgaaatc ttttaaattt tcactatcat gttatggaat 900  
ggaaagtaca ttgggctgaa ctaatccaat tgttattaag ccactctgtg acattagaaa 960  
actctactgt tttaagcttt agtttccttt atggaatgaa ggmmttgagg tagattattt 1020  
caaaggtagt ttggagtttt ataatcagtt ttgtatat tacaatatttt cttgaatggg 1080  
tttactatac atcagcattt tgctgtgttg catctagaat gtgtatgttt atgcatgttt 1140  
tgccaataga atttgtgctt cagtaactag atcggggatc tagtatgctc ctgggtctaat 1200  
gcatttacat tgtttaggta actggttcct aataaaaaaga attataaaat accctcaaat 1260  
taacaattca attgcatata atagcctaac tcagtaagaa tattaaaact tactattatt 1320  
aaaaaaaaa 1329

<210> 636  
<211> 440  
<212> DNA  
<213> Homo sapiens

<400> 636  
gctgctggaa gccagggcgg gggaaggggg ccgtgtgtcg cgsagagcgc ccttgagcct 60  
tacgcagagg tcttgtgtgt tcctagttaa gccctcccac gcccgaggcc ccactgcttc 120  
ctctccaccc tctttaccca ccaatattcc aagcccagat cctaattccc caccgcatta 180  
ccccgccctg gatttgggga atgtttttct ttattttaat atagctcaag gaaaaaatac 240  
gtatatcttg agagatttgg ggtggggaaa acaaaagcct tgcggagtar aaaaaacaaa 300  
ggcttatttt tataaatgtt taatgttttc acccctgga tgctccgara cgccgtaatt 360  
gtgacggcgg ggtacgtgtg ccataaatca tttagttgct aataaaaatt ctgcctgttt 420  
gccctggaaa aaaaaaaaaa 440

<210> 637  
<211> 1216  
<212> DNA

440

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (4)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1078)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 637

```

aagnggggaa acgcttcagg ctgatgtggt gatttacggt attggtatca gcgccaacga 60
gcaactggct cgcgaggcca accttgatac tgccaatggc attgtcattg atgaggcttg 120
ccgcacctgc gatcccgcca tctttgccgg tggcgatgtg gcaatcactc gtcttgataa 180
tggtgcacta caccgctgcg aaagctggga aaacgccaat aaccaggcgc aaattgccgc 240
tgccgcaatg ttagggctac cgctaccgct actgccgccg ccgtgggtct ggagcgatca 300
gtacagtgat aacttacagt ttattggcga tatgcgtggc gatgactggc tttgtcgtgg 360
caacccggaa actcagaagg cgatttggtt taatctgcaa aacggcgtgc ttatcgggtgc 420
ggtcacgctg aatcaggggc gtgagattcg cccaattcgc aaatggatcc agagcggcaa 480
aacgtttgat gcgaaactgc tgatagatga gaacatcgcg cttaaatacac tgtaaccagg 540
ataattagcg aatatctcaa tgcctggggc gtggcgaggt gcaagagtgt gtattacgtt 600
taaatacatat tatcttgcaa agggawtggg ctgctcgcca tatcgtcaat cgtatcaatg 660
cgttcaaacc gactgccgat cgtccgtttg tactgggcct gccgactggc ggcacgccga 720
tgaccaccta taaagcgta gtcgaaatgc ataaagcagg ccaggtcagc tttaagcacg 780
ttgtcacctt caacatggac gaatatgtcg gtctgccgaa agagcatccg gaaagctact 840
acagctttat gcaccgtaat ttcttcgatc acgttgatat tccagcagaa aacatcaacc 900
ttctcaacgg caacgccccg gatatcgacg ccgagtggcg ccagtatgaa raaaaaatcc 960
gttcttacgg aaaaattcat ctgtttatgg gcggtgtakg taacgacggg catattgcat 1020
ttaacgaacc ggcgtcttct ctggcttctc gtactcgtat caaaacctg actcatgnac 1080
actcgcgtcg caaactctcg tttctttgat aacgatgtta atcagggtgc aaaatatgcc 1140
ctgactgtcg gtgttggtac actgctggat gccgaagaag tgatgattct ggtgctgggt 1200
agccagaaaag cactgg                                     1216

```

&lt;210&gt; 638

&lt;211&gt; 557

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 638

```

ggggattctg ttcataatac tggatgggtc ctttgacctt tgtgtcactt cagtgtcaaa 60
aggaggattt gaaaggggaa aaacggcaac atttgcactg ctgtacaggt tgagaaatat 120
cctatttgaa agaaatagaa gagtgatgga tgtcatttct cgttcacagc ttacttgga 180
tgatcttttt tctgactact atgacaaacc tctcagcatg actgatattt cactcaaaga 240
agggacccat atccgagtta acttacttaa tcacaacatt cccaaagggc cttgcatact 300
ctgtggaatg gggaacttca aaagggagac agtttatggg tgctttcagt gttctgttga 360
tggtcagaag tatgtgagac ttcattgcagt tccttgtttt gatatttggc acaagaggat 420
gaaataaaaat gaaaaatgaa tacaccgtgt tgggtgtttta ggtgcagttg tgccacaaac 480
cttccctaaa ttatctaggt ttgmwwtgat smmttaaat aaaatgagaa aagcaaaaaa 540
aaaaaaaaaa aaaaaaa                                     557

```

441

<210> 639  
<211> 1269  
<212> DNA  
<213> Homo sapiens

<400> 639  
aattcggcac gagtttgtat tttgagtaga gacaggggtt caccgtgttg gctaggatgg 60  
tgtctatctc ttgaccttgt gatccaccgc cctcagcctc ccagagtgtt gggattacag 120  
gtgcgagcca ctgcgcctgg ctgggttttca tgaatcttga tagacatcta taacgttatt 180  
atthttcagt gtgtgcagca tttttgcttc atgagtatga cctaggtata gagatctgat 240  
aacttgaatt cagaatatta agaaaatgaa gtaactgatt ttctaaaaaa aaaaaaaaaa 300  
aaaatttcta cattataact cacagcattg ttccattgca ggttttgcaa tgtttggggg 360  
taaagacagt agaaatatta ttcagtaaac aataatgtgt gaacttttaa gatggataat 420  
agggcatgga ctgagtgttg ctatcttgaa atgtgcacag gtacacttac cttttttttt 480  
ttttttttta agtttttccc attcaggaaa acaacattgt gatctgtact acaggaacca 540  
aatgtcatgc gtcatacatg tgggtataaa gtacataaaa tatatctaac tattcataat 600  
gtgggggtgg taatactgtc tgtgaaataa tgtaagaagc ttttactta aaaaaaatgc 660  
attactttca cttaacacta gacaccaggt cgaaaatttt caagggtata gtacttattt 720  
caacaattct tagagatgct agctagtgtt gaagctaaaa atagctttat ttatgctgaa 780  
ttgtgatttt tttatgccaa awttttttta gttctaataa ttgatgatag cttggaaata 840  
aataattatg ccatggcatt tgacagttca ttattcctat aagaattaaa ttgagtttag 900  
agagaatggt ggtgttgagc tgattattaa cagttactga aatcaaatat ttatttgtaa 960  
cattattcca tttgtatttt aggtttcctt ttacattctt tttatatgca ttctgacatt 1020  
acatattttt taagactatg gaaataattt aaagatttaa gctctggtgg atgattatct 1080  
gctaagtaag tctgaaaatg taatatthttg ataatactgt aatatacctg tcacacaaat 1140  
gcttttctaa tgttttaacc ttgagtattg cagttgctgc tttgtacaga gggtactgca 1200  
ataaaggaag tggattcatt aaacctattt aatgtccaaa aaaaaaaaaa aaaaaaaaaa 1260  
aaaaaaaaa 1269

<210> 640  
<211> 691  
<212> DNA  
<213> Homo sapiens

<400> 640  
gggaatattg taatacagtc cagctagatt ctgggataga ttaccggaaa agggaaacttc 60  
ctgctgcagg aaaactctac tacctcacia gtgaagctga tgtggaggct gtcattggata 120  
agttgtttga tgagctggct cagaaacaaa atgatttaac tagaccaagg attctaaaag 180  
tgcaaggcag agagctgcgc ctgaataaaag cctgtggaac cgttgccgac tgcacatttg 240  
aagagctgtg tgagagacca cttggagcca gtgactattt ggaactayca aagaattttg 300  
atacaatatt tttacgaamc attccgcaat ttactctggc aaacaggact caaggctcgaa 360  
gattcataac tctcatcgat aacttttatg atctcaagggt gcgtataatt tgctctgcgt 420  
cgactcctat atcaagctta tttttgcatc aacatcatga cagtgtgttg gagcaaagca 480  
gaatactgat ggatgawttg gggctkarcc aggattcagc agaaggactc tccatgttta 540  
ccggagaaga ggaaatcttt gcatttcagc gcacaatttc ccgactcacg gaaatgcaga 600  
ctgaacagta ctggaatgaa ggagacagaa ccaagaagta actgccactt ttgcataaat 660  
aaaactctag acaaatgggt aaaaaaaaaa a 691

<210> 641  
<211> 604

442

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (528)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 641

```
cgcgctcgact tttttttttt caatttcaag gattacgaaa ttcttctgtc ttagttacaa 60
acaaaatgca gctatgaagc actgggaagt aaatgcaaaa tatagaaaga atcttcatga 120
ttctcccaaa ctgtaagcac agtcacaaa gtctcattgc tttagaatgt tttctggatg 180
aacaagttac cagctgcaaa ccgacttcag aagtgaggaa aatgttttct catgtttcat 240
gtagctgtca aattttcaaa aatcctccat cttcaatca ccagtgggg aaaatgtgtt 300
ataaaacact gccccttgga gtattctggg aggaatgtct taaaaaaaaa aaaaaaacag 360
carggagaaa gtactttcaa attctttact aaccactaac agaatttcta agaagcaaaa 420
gaaaaccaca gaaaggaaat gtacatgaat aaagttgagc aggatgtgta caactttaaa 480
ctgtattgta ttcattgtgc taaacaatat tggccttctc gatgattnta ttcattgtgc 540
tccaaagtta accctgtaga actaagtagg tgaagagata ttttgtataa gtgccacaga 600
agag 604
```

&lt;210&gt; 642

&lt;211&gt; 961

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (31)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (32)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (923)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (947)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (953)

&lt;223&gt; n equals a,t,g, or c



443

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (954)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (960)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 642

```

tagatagaac agatgttttg tgtgaaatnt nntatcttta acttaatwaa ccagcaggaa 60
ctgtatgaac acaacacacc caactgacaa acagagagaa ctaacatgtt tatttagctg 120
tatgtatata tgcttaacta cacccgagga agctgtagag ttagaaaaac atgaaccatt 180
aacagatgtg gcctccctgc agaactttta ctttgaaaaa gaagtacgtc tgaaccagat 240
tcacatgttt gatatttgga tgcagagaaa atggggcaga aagcatcgca acagttggct 300
ctgaaggaca gcaaagaggt gcccgctcgtc tgtgaggtgg tcagtgaagc tatagtccat 360
gcagctcaga aactgaagga gtaccttgga tttgaatatc ctccaagtaa actctgcca 420
gctgcaaata ctctgaatga gatcttctta atccatttca tcactttctg ccaagaaaag 480
ggagttgatg agtggctgac caccaccaag atgaccaagc accaagcctt cctgtttggt 540
gcagactgga tttggacctt ttggggatcy gacaagcaaa taaagcttca gctcgagta 600
cagactctgc agatgtcttc acctcctcct gtggaatcta agccttgatg cctttccaat 660
ccagaatcaa rggtaragga rtcttcctgg aagaaaagta gatttgataa gctggaagaa 720
ttctgtaact taataggaga ggattgcctg ggtctgttta tcatctttgg tatgccagga 780
aagcctaaag acatcagggg agttgtcctg gacagtgtca aaagtcagat ggtgaggagc 840
catctgccag gagggaaggc tgtggctcas tttgtcctgg aaactgaaga ttgtgtgttc 900
atcaaagagc tgctcaaaat tgnctgagta agaaagacgg gctgganaga agnnggcaan 960
g

```

&lt;210&gt; 643

&lt;211&gt; 425

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 643

```

acatggaagc ttttttacca aataactgtg ttgcatcatc ctccagtttg cctgggtgtcc 60
ttaatcaatg gaaggggaat aagcaaactg agttttctta caccttttga gtatagtgtt 120
tttgccatca tagatgtggc tcctcataat tctccaactt ttatattaaa aaaccaaaac 180
ctcaaaaatt gtagttcatg tcagtcagtg atgactcatc ttagaaktat tttgtttttg 240
gatgtgtgaa tgtgcatagt tcttaaagtc caacattcat gtaataagac atcttgcata 300
taacaatgac ccttacgtct aagatgttaa atagatccta agcctgggat aactttattc 360
aagtatcctt atttgcccct aaaatgtctt taatacacat tacttgggtt atytcttgaa 420
tgaac

```

&lt;210&gt; 644

&lt;211&gt; 419

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 644

```

ggtttcaatg ttttgtctgt gtctctctga ttattttgct tggtgattgg ccagttgtta 60

```

444

```

attctgtctt tgtgagttgt ctttttctca gtacttggcc tatttgcctt tgatttgaaa 120
aagctcttta tgttgtagtc attttaattc ctgtcatatg ttttgtaaac aatttttcga 180
gttcataaatt tttcaatctt gtttgtatta tattttgcca cacaaaaatt ttaaatttgt 240
atagtcaaatt ttatcagttt ttttccttat gttggacctt ctaatctcaa ggtactaaat 300
ataatctagc atttttttaa acattaaaaa tttttaatcc atctataatt tatttttagga 360
tagggagtgga ggcaggggaa ggtatctttt taaataaaaa tcgttgctaa aaaaaaaaaa 419

```

&lt;210&gt; 645

&lt;211&gt; 655

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (14)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 645

```

acagcctaac tttncagcta gacagaatgg ccattaagaa tatttcctaaa atccaagttt 60
atcaaaatta ttttgtggga aatcatcaat ctattttatt aatgttatgt gtttaatttt 120
ggacttattt tgggaaaaac tgttcaaatt ggttcctttt aagcttattt taagcagcct 180
agaaggaaga agctacttag ctaatgaaag ctgagacact ttaataaaaag caggatctta 240
agagcattgt ttttccttaa aaactttata ctctcagata atctgcaaca acaaaaatta 300
agaaatccct gacttttgta gaattcccac tgtcaaattc tctactgactt atgagtgtga 360
gagaagttat cttttgtttg aattctgata gaacagttta actcctttct aaggatataa 420
aaaattcatt ggaaagtgtg tatatttcaa agactctcaa ttatctggac tgaaggcact 480
gttctcacta tggccagatg aatgggagta ttctgtacat gaatcatgct gtatttttaa 540
tcaggacatc acttaagtat taatgttgtg tgtacagatt tttgttttgg gatttttttt 600
gcctaaataa atgttataaa ttttatgtaa aaaaaaaaaa aaaaaaaaaa aaaaaa 655

```

&lt;210&gt; 646

&lt;211&gt; 458

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (371)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (427)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (428)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 646

## 445

```

gccctctctt ccaatatcca tgtctcatac actatggctt actgttgaaa tccaactggg 60
aagaagataa ttctttgagc aagcaatggt agattcaggc tcctacagaa acagcattga 120
tcatactgtg gttcttcgag agaagctgcc catccgcagt aatatcttcc ctctgatgct 180
ggaaactgtc gacggccatc cacttattaa tggacccata actaaggaaa catcacctgt 240
ccaagttcaa attggaaacc atgttgaaga gctccagttt gacattattc atgcaccacg 300
ataccctctg attattggaa tccattgggt tgagacacat gaccaaacat araatggart 360
acccgcactg ngtcctttct atcacgttat ttgtcactac aattgcttca ggcacagggtg 420
ggaatannaa gaaatccgtg atgaaataat tttctggg 458

```

&lt;210&gt; 647

&lt;211&gt; 285

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (153)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (162)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (236)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 647

```

aaggctgaca caggagcaat caagaaccca ggagacgggtg gttgcagtga gctgagatcg 60
cgccattgcc ctccagcctg ggcaacaagg gtgaaactct gtctcaaaaa acaaacaaac 120
aaatgcattt aactattcct gtgtaacaaa ttntaaaggg angctgtaaa gtaaagggtt 180
ttcttatcca aacagattgc tcttcttgaa aacagcagcc tgyggttatg tcaganatgc 240
aaacactgct gaaggctaca gagagaagct ggtaactggc tgccg 285

```

&lt;210&gt; 648

&lt;211&gt; 1872

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 648

```

aattccgatt ttatgccagt tgcaccagca tgcagaatat ttgtaatgca tttcaaagtg 60
gatataatgg caccctttgt cagaatcaca aagctcactg cggcactgct acaagaggac 120
actgaggaaa atctggccct atgaacctag tcaaccccaa gcaaaaagaa tgactatgtg 180
tgtgagtgca gcacatggcc agttcgtttc tactgtttt ggaaagccct gtgtgccaaa 240
ccaaggacgt gtctttcagg gaaagggttaa ttttcogaag tttattaaaa tagaacttgg 300
aaaaccaagc attttgaatt tattccagtc ctctgggcac cattcctatt tcttctgcca 360
tgtcaaggag aaattccaag cctgcattct gtcatgctaa aataaccagc ccatacttct 420
cggtgacctt ctgttgaaag tacctgagcc tgcaaatgta aaaatgattg tatctgaatt 480
tgcactaatg gtgtctgaga gcaaaaagag tgtgacctct attggaaacc tttgttcaaa 540

```

446

```

ttcaataatt cagagatgct acatacttct gcaagcttcc tgattatggt cactgtaata 600
ttaatgacct aagtttgaat gtatttcctt acagtcatt aatttgacat ccatctttta 660
cctgggggatt attacaattg caataagtca ttaatgtttt cttcacacag cttcttaaac 720
caagtttctc tgcagctctt tcggttctgc ttacagtgtg tgggaaatct gatttttttc 780
ccctagtaat agtttgataa gaaatttagt gtattgactg cctcagtgc acaatttata 840
tttaaagggtg tggaagctgg tggggaccaa atgttacctg tgtttttgct gttgattgct 900
attttcagaa gcaaaccatg tttttcactt acagtaggag tcaacaaatt tgggatttta 960
gaaggggggag gagggagcta tttgtgtaag actgctgtca tatttgacta catattaaaa 1020
acagtaaattg agcattttgt tttaatttct taaatacctt gtctttcaac atacgttttg 1080
tttcctttct tccattagtg ttcaaaagggt tctacccatt gtggaagaaa ttctgtgtgc 1140
agaattcaga ggcacaaggc tgatggcaag attagaaagt tattttgctt ctaaaccac 1200
cccgatgtgg aaactgatac tagctagagg gagctgtaga aaacaaagat ttcaggattg 1260
cacagtgtgt gggcaatggg atggagactt tttccctat tcccagccac agtgcccaag 1320
cgttcaagtc ycctggatca gacagatggg attttagctg ctgctttaa tcttagtgct 1380
ggaataagtc aaggtacytc agttcagctc ttgcctctgt cactaatctt gctttatgaa 1440
ctcctttgat tttctgaata agttccagaa ggttctctat tattctgtcc ttcttccaaa 1500
ctggaaatgg ctgtatctaa ttctcaggat attttggatg tgtgcctcag gtaatttatg 1560
tggaatgtgt aaagcaagat gtctccaatt ctgaatatc cttcccttt tcccaatcct 1620
ccactcttgg actaccttta taacaacacc gagtacgcac agacctgaac ccatgccccaa 1680
gaagcacaca caatgactgg agctgtcggg aattcctgtc agtggcattc cctgagcact 1740
ggctctgtac aactcaatta taatttttta agaatacaca ctctgtatag atcttttgga 1800
ctgtactgat taaactttga tattgtggag taaattcaga agtgcaattt taaaaaaaaa 1860
aaaaaaaaaa aa 1872

```

&lt;210&gt; 649

&lt;211&gt; 840

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 649

```

aattggaagg gaccttaag ccctctaaga aagagttggt tagtagcagc tagaagccag 60
gtcttccaaa tcacagtcct aaatgatgaa tgttgaatga tgcactatgt ttttgtttaa 120
atgagatttc ctgaaaatag ttaatttcag aattaaggga aattgatgtc gctatcatga 180
ggcatcataa aaatatgtat tttacaagggt gaaggcattt caagtagata tagttcttga 240
tgaagcagga agaacatgga tctgggattt ggaagacctg gcttctagct gctactaacc 300
aactctgtga ctctgggaaa gggggactca gttcttactt ctgtaacatg aggacaccgg 360
actatttgaa ttcagaactt agaaaattgg aaggggacctt aaagccctct aagaaagagt 420
tcgggaatgt tctccattgc tgtcagtttt cctccaaaaa taacctggct tggaagttat 480
tggtccagtg ggaatttgat tccccataga aactggagaa aaggtaatgc aagtagagag 540
gaacagctgt atttctgctt gagtaataaa cccactaaca gattctggta cgaattgtgg 600
agacataaag agaattgagt tatgtactct aagtgtacca gtttcttcac tctctcctgg 660
cagaagatgc aacactttta gtgattctgg gattctggga tgtgttccta ttaattctaa 720
tacagatgaa gaagatgtgg tagaggaaaa gatggttagca gaaggagtga ataaagaggc 780
aaaacagccc gctaaaaaga aaagaaagaa ggggtttgca attaagggga aaaggcgtcg 840

```

&lt;210&gt; 650

&lt;211&gt; 823

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

447

&lt;221&gt; misc feature

&lt;222&gt; (4)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (192)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 650

```

cggntttgga gcatataccc aactttttctc tggatgatat ggtaaagctc gtagaagtcc 60
ccaacgatgg agggcctctg ggaatccatg tagtgccttt cagtgcctcg ggcggcagaa 120
ccctgggggtt attagtaaaa cgattggaga aagggtggtaa agctgaacat gaaaatcttt 180
ttcgtgagaa tnattgcatt gtcaggatta atgatggcga ccttcgaaat agaagatttg 240
aacaagcaca acatatgttt cgccaagcca tgcgtacacc catcatttgg ttccatgtgg 300
ttcctgcagc aaataaagag cagtatgaac aactatccca aagtgagaag aacaattact 360
attcaagccg ttttagccct gacagccagt atattgacaa caggagtgtg aacagtgcag 420
ggcttcacac ggtgcagaga gcaccccgac tgaaccaccc gcctgagcag atagactctc 480
actcaagact acctcatagc gcacaccctt cgggaaaacc accatccgct ccagcctcgg 540
cacctcagaa tgtatttagt acgactgtaa gcagtggtta taacaccaaa aaaataggca 600
agaggcttaa tatccagctt aagaaaggta cagaaggttt gggattcagc atcacttcca 660
gagatgtaac aatagggtggc tcagctccaa tctatgtgaa aaacattctc ccccgggggg 720
cggccattca ggatggccga cttaaggcag gagacagact tatagaggta aatggagtag 780
gtttagtggg caaatcccaa gaggaagttg tttcgtgtt gag 823

```

&lt;210&gt; 651

&lt;211&gt; 541

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (7)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (8)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (66)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 651

```

ggcacgnngg gagggccagg gagaacgggg aaggacatt tagtttgaga cggtgctgag 60
ataggntcat gaaggaagag gtgaaggga ttctgtgaag agtggcgctg cgttgctgcc 120
ctctggtccc caaagagatt agcgagggt gccagatgtg cctttccttc gtgcccggag 180
agcctcaggt ggtggttgg acagataaat ccttcacct cgattttgta tttgatccct 240
ctactgaaca ggaagaagtc ttcaatacag cagtagcgcc actcataaaa ggtgtattta 300

```

448

```

aaggatataa tgcaacgggc ctggcctatg ggcagactgg ctctggaaaa acctattcaa 360
tgaggaggtgc atatactgca gagcaagaga atgaaccaac agttgggggtt attcctaggg 420
taatacaact gctcttcaaa gaaattgata aaaagagtga ctttgaattt actctgaaag 480
tgtcttactt agagatttac aatgaagaaa ttttggatct tctatgccca tctcgtgaga 540
a                                                                 541

```

&lt;210&gt; 652

&lt;211&gt; 1655

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1378)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1444)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1521)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1606)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1648)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 652

```

agtctggagc cggcgcgtag gagcggggcg cgggctgtg ccctctccta ctccctcaccg 60
cgcgmgcggg gaaccagtar cgcggetgc ttcggttgcc gcggtcggtg gtcgttatgg 120
attctccatg ggacgagttg gctctggcct tctcccgac gtccatgttt cccttttttg 180
acatcgcgca ctatctagtg tcagtgatgg cggtgaaacg tcagccggga gcagctgcat 240
tggcatggaa gaatcctatt tcaagctggg ttactgctat gctccactgt tttgggtggag 300
gaattttatc ctgtctactg cttgcagagc ctccattgaa gtttcttgca aaccacacta 360
acatattact ggcattctca atctggtata ttacattttt ttgcccgcac gacctagttt 420
cccagggcta ttcatactca cctgttcaac tactggcttc gggaatgaag gaagtgacca 480
gaacttggaa aatagtaggt ggagtcacac atgctaatac ctattacaaa aatggctgga 540
tagtcatgat agctattgga tgggcccagag gtgcaggtgg taccattata acgaattttg 600
agaggttggg aaaaggagat tggaaaccag aagggtgatga atggctgaag atgtcatacc 660
ctgccaaagg aaccttgctg gggtcagtta tcttcacatt ccagsacacc cagsatctgg 720
caatatcaaa gcataatctt atgttccttt ataccatctt tattgtggcc acaaagataa 780
ccatgatgac tacacagact tctactatga catttgctcc ttttgaggat acattgagtt 840

```

449

```

ggatgctatt tggctggcag cagccgtttt catcatgtga gaagaaaagt gaagcaaagt 900
caccttccaa tggcgttggg tcattggcct caaagccggt agatgttgcc tcagataatg 960
ttaaaaagaa acatactaag aagaatgaat aaattttacgt gatgagctct acaaggccaa 1020
aaattttttt tcttatctac ctgttatatt gtgctaattt tctatgtatg tgatgtgaaa 1080
tgaagactat atatatggaa tggagggtgac agaaagaaag aaattccttg tttgagggag 1140
acttccccct tctggattgt atttgtagag tgttacgagt gtatcatgtg attatgcttt 1200
accggtataa gagattctgt tgtgattatt tgaatagttt tatattaata aaagaagacm 1260
aaatttttta aatgttagaa aaagcagatc tgtcattgca aagtaacaaa aatttttaagc 1320
ttttaaaaaa gtaagatttt tcgtattttt aaaatttgaa tctatttttg gcttttagntc 1380
agcagaatta aattttttact tgacattatc attaaaattg ctaggtatgg agaacaattc 1440
ctgntttatt ttgaacactg agaaagaggt aaacttttcc taaaacactt tatattataa 1500
accgaaaaat aaattgctag nttatatttt aagatattaa catcatattt tttaataata 1560
cctacatcaa atgggaaaat atctgaaatt tttttttcat tagcanggat ttttctacta 1620
gaaagtagtt taactacttt cattttanaa ccaga 1655

```

&lt;210&gt; 653

&lt;211&gt; 1160

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 653

```

tggcgctagt ctgaccctcc gccaggcaaa aggaagattg tctttggcta tagagttttt 60
tttttaaaaga ttactaaaca tacaggaagt gataagaagt atcattcatc agaagcatca 120
ttcatcaatc aacttgaaga aaaagggtgat atattatttc tttaagggtgc tgtgtgatgt 180
gttaagagca tattagaagg aatgggtttt tctaattttc ttcagaggtt atgggtggctg 240
agacatcgag tctatatattt ggggcaaaaa ctaaaccgga gcacaaaagg aaatctatat 300
taatagaata ttttgttgaa caaaggaggt tagataagaa ctgcaaacca acagactcag 360
caaacaagga aagaaacgtg ttagccataa gacatgtttc aagtgaatcg aagtccaata 420
actgtagact tcagaagaaa aaagttttca aaaattttat caaaacaggt cactgataaa 480
taactcctcc agtaatagag ctaggcctga aaccaraatt aattaaaaaa ttaacaaaac 540
agattgaacc tgaattaaat ttctttttgat aaaaaaactt attaaaaata atcaaaattt 600
tcctcaaatt tttattacct tgtccaaagt aaagcaagtg tcttttagca ttcagtcag 660
cttttctcat gktctaggaa tgacagaaac cttacttgaa gcaaactagt atttttggtg 720
aaaatgkata tcagcatcag tttaaagttga tttttcagac ctgctcctca gtaataatac 780
tagctagtca gcattcacgc ctaccaggac acaaaaatcc tcttcaaaac tactcagaaa 840
agaaagtcac tactcaggaa tgatgtccat tcaggagaaa tcaaaagaga attcctccaa 900
agttactaaa aaaagtgcag ataagaattc agaaacagaa attcaggatt ctcaaaagaa 960
tctagcaaaa aatcagggtcc aaaggagact ataaaaatcac aggctaaatc ttccagtga 1020
agtaaaataa atcagccaga attggaaaca cgcatgagta caaggtcac aaaggcagca 1080
tctaataata aagctactaa atccattaat aaaaatacgg tgactgtgag gggatattca 1140
caagaatcta caaaaaaaaaa 1160

```

&lt;210&gt; 654

&lt;211&gt; 836

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (538)

&lt;223&gt; n equals a,t,g, or c

450

&lt;400&gt; 654

```
gaaggcctga gagacggcag actgagcaga attccttttt tgagcacgag agcattacta 60
gaaccattgt caaagcagtg gcaagggacg gagaggtccc aacaggagtc aggaagaggt 120
ttgattataa ccaagaaaac tcactatgct aggaatagac tgtgtgcacc agtcccagac 180
acttggcaga agtgtagcag cgttacacat gtgtgcgaas agatcgagg ttccacgcca 240
tctgcatggc ctgcaggagc ttctgctgct gaccccatgc tgagtggcca gtggggagcg 300
gcgcccggca ggctcttctg gggctcgtctg tcctatccgt ggattgtata tactcttctc 360
tgttaaggag tttttcccaa gaagaaaagt atttaaaaga aataccagtg agtgccttaa 420
agttggagaa gtaactgccc atgcccagaa ataaggatgc cagtgcccg aagcagtgag 480
attagtctgt gtccacaagc agaggccccc tcgatgggag ggagtggcag gcaggagnaa 540
ggtggcgctg ccaggtgccc gggctctattg gaggcgcccc atctcagact tcctaacaca 600
gcctgtgtgg aaggcagaac aaagaatgca tgccagtcga gaaatctgkt ctattctgct 660
ccaggaaaat cggaaacctg tgagtcagag tcagagaaac ttaccaagc aacgtaattc 720
ctgttttcat gggctctgta gatgtttgag tcaggaggta aggcggggag ttactaataa 780
actctgcctt ttaaattgag catcttggcc gggcatggtg gctcacgcct gtaccc 836
```

&lt;210&gt; 655

&lt;211&gt; 1188

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1158)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1162)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1175)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 655

```
actatatctg gcctttataa acttttttga ttcttgtcat aacacttagc ctaaaatgca 60
aatgtacagc tgtagaaaaa tactttatct ctttatatcc ttattctaga agcttttttt 120
ctattaattt ttgtttgttt gktttgtttt actatttact tctaaaactt ttttgttaaa 180
aaccatggca caaacacaca cattatgcta ggcatacaaa aggtcaggat catcagtctc 240
actgtcttcc acccccactt ctcacccac cattgtatct gctgtctgtg gctgaccaa 300
acatcatcat gtagcacatg actagtgtgg caagtgtctt gttagatgta aggccatgat 360
gctaaagcat cacaagaggg catctaacc agattgggga tgtcatggaa ggccgacatc 420
ctgagttgaa tcctgcaaat gtaaaaacca ataggcaaag aagaggaaca aaaaggattc 480
caggacaaac tgaggtcaca tctatgatcc ttgactttat tgtgtctgtt taaagtatct 540
acagtaacct gtatcaactt agtcagtgtt ttaatactaa atttagctcc ttcaaagcag 600
ttggaactat gtgctacata aatttcagct tcacacaagg aagggaagga gtgaaattag 660
tgaacaggca gttacagcaa aagaaaaaac ataaaaattg aatagctggc tctggtgaaa 720
tgagcaagga ctttagagtc aaactggcct ggatttgaat cctgatcttc attgcttgta 780
```



## 451

```

gctgtatgat ctggacaaat gacagtaact gtttctaacc ttgattttct catctgtaag 840
atgccaattg taactcctaa ggatactgag gattttttaa aatgcgtgta cagttcctga 900
ccagtgggtt gtgcctaata acttattaca aattattacc cagtaaaaac cttgagacaa 960
gagtgaaaac gtaaagctaa ttaatccatt acttggttagc aagcaaacta cgtgcttgag 1020
aaaattactc aactttcatg ttttacttcc agacagtagt ttgattaaaa gaaaaaaaaa 1080
aaatccagcc caagcatggt ggcttacacc ctggcacttg gaaggcccaa ggtgggaacc 1140
ataagcttgg agccctanca anttttgaaa actanccctg ggggcaac 1188

```

<210> 656

<211> 1132

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (256)

<223> n equals a,t,g, or c

<400> 656

```

gacgcgtccg ccgcctccgg aactaaacgg ggtgagggtca cattcgggtta tctctaacgt 60
tggaacacga tggagctaac acccattatg gagattaacc acttttcatc aggtttttaa 120
cttaagtcgt gaggaataca acggtgaaca caagattcat tttattttca tcaccatggg 180
acgtatcctg ttgttgagtt ctctgggtca gacctctgaa gacttctcag atggatccta 240
gtctctgggc ttgccntgaa attactcgtc gctcaggag agagttgaaa tggttggcat 300
cctcccactc tgttgctccg gctgtgtccc ctgcctctgt tgttccagct atgtcccctc 360
tgttgctcca actgcagctc attctgttag agttcctcat tcagctgggtc actgtggcca 420
gagggtgttg gcctgctccc ttccctcaagt attcttaaag ccatggattt ttgtggagca 480
ttttcttcc tggctctccc ttgagttatt ttcccttctt cgctatcttg ggactcttct 540
ttgtgcttgc ggwcacgggt tgagagaagg acttcttctt ccttgtctcc ttggtgttgg 600
ctcgtggttg ctcttcaaca actggactgg aggcctcttg ttttctctc atcttcaaca 660
agtcagtctc tctcaagggt ctcacgttgc agcattctta ccagaggcca ttgggcctgg 720
agttccagtt ccagtgtctg gagagtcac ctcagctcag caatctcatg ccggttggca 780
attgtcagca gaagccgatg cctgcccac agttctttac tctgaggtgt tagagtggaa 840
taaaaatata aatacttata ctagttttca tgacttctgc ttaatattgg gtattttttt 900
gttttgtttt gttttggcgg tgataggctt accttacatt aaaccaggcc ttagcctttc 960
tgtggctttg ttatgcaaag cctcatatta ctctctagtc tggttcagca ggacagtcag 1020
gtccacacct ggggctgttt gttttctacg tttacctcaa cataaggtag cttatcattg 1080
tcagccttca tctcctgac caaaataaaa taaaatgcca caggttactt ga 1132

```

<210> 657

<211> 566

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (283)

<223> n equals a,t,g, or c

<220>

<221> misc feature

452

&lt;222&gt; (461)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (483)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (495)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (519)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 657

```

aaaaaaaaa caaaaaaaaa aaaactactt ctaattagct caatattaat attttaacaa 60
gttgggttgg taacagtata tctttgssca tgctggcaaa ttcttgtttt gtcagcattt 120
tccataactc tggccaaagt gtcacctgat gtggcaacgt ttacagtct tgctattggt 180
tcttgagtcc tttaatctat aagatgtatt tttaaaaata tataacatat aaattttggt 240
tcgttatagc tctttaaaaa aaaaaaaaaa aagggcgggc cgntctagag gatccaagct 300
tacgtacgcg tgcattgcgac gtcattagctc ttctatagtgc tcacctaaat tcaattcact 360
ggcgcgtcgtt ttacaaccgt cgtgactggg aaaccctgg cgttacccaa cttaatcgcc 420
ttgcagcaca tccccctttc gcagctggcg taatagcgaa naagcccgca ccgatcgccc 480
ttnccaacag ttgcnacgcc tgattgggga atggggacnc gccctgtatc ggcgcattaa 540
gcgcggcggg ttgcggtggt ttcgcc                                     566

```

&lt;210&gt; 658

&lt;211&gt; 1178

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 658

```

atccagcggg tgagtctggt gaggagtctt tgcgagagcg aggagcagcg gttactggaa 60
cagggtgcatg gcraagagga gcgggcccac cagagcatcc tgacacagcg ggtgcaactg 120
gccgaggcgc tgcagaarct tgacaccatc cgcactggcc tgggtgggcat gcttactcac 180
ctggatgacc tccagctgat tcagaaggag caagagattt tgcgagaggac cgaagaagca 240
gagggcattt tggatcccca ggagtcggaa atgttaaact ttaatgagaa gtgcaactcg 300
agcccactac tgacccaact ctgggcaacg gcggttcttg ggtctctctc aggcacagag 360
gacatacggg tcgatgagag gacagtcagc cccttctctc aattgtcaga tgatcgaaag 420
accctgacct tcagcaccaa gaagtcaaag gcctgtgcag atggcccggg gcgcttcgac 480
cactggccca atgccttggc tgccacctcc ttccagaatg ggctccatgc ctggatggtg 540
aatgtccaga acagtgtgtc ctataagggt ggctgtggct caggccacct gccccgcaag 600
gkttctggca gtgactgccc tctgggccac aatgccttct cctgggtctt ctctcgctat 660
gatcaggagt ttcgtttctc acacaatggg cagcaacgag ccctgggggt gctgcggggc 720
ccarcccarc tgggtgtagt gctggacttg caggttcagg agctgctctt ctatgagcca 780
gcstccggca cagtgtcttg tgcccatcat gtgtccttcc cggggccctt cttcccagtc 840
tttgctgtgg ccgatcagac catttctatc gtccgctgac ctctggccac aggaagccag 900

```

453

```

gtccaccgcc caccaccctt tcaggccatg tttctactca gtgtgctttt cccaaatgat 960
gtgtgtggtg tttctaagag aaacagggcc cataaccagt gggcagcttt aggagggatg 1020
gggatctgtt tcagatctag gcataacctg taaatcacag gtgtccaaac ttttggttc 1080
cctgggccac atttgaagaa gaattttctt gggccacata aaatacacta acgatagctg 1140
atgagctaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaa 1178

```

&lt;210&gt; 659

&lt;211&gt; 924

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 659

```

gctatagtct gtkaaatgtg cagtagcggt gtgtcttaaa aaatgtgcat actttaaaaa 60
tgctttattht aaaaaaaatt ctctgatca tcttgagcct tcaggagatc atgatctttt 120
tgctggtgga gggctctgcc tctatcttga tggctgctga ctgagcagag tgggtggtgc 180
tgaaggtycg ggtakctgta gcaatttctt aaaataagac agtaataaag ttgccacatc 240
aatgggactc ttcctttcac aaaagatttt tctggaagca tgggatgctg tttgataagc 300
atthttacca cagtagaact tctttcaaaa ttggagtcag tctcttcaca cctgcccact 360
gttgtactat gtttatcaat attctaaatc ctttgttgta ggctaaacaa tattcacagc 420
atthttacca ggagtaaatt tcatctcaca aaaccacttt ccaggctctt tctggactgt 480
agagttcttt ccaggctacc ttgtggcagt ttaagagtct ggcatcattt tccgctggga 540
cctaaggatc gaggaggtgc ttgtgactag actgccaatg gacccatcac aaagtthaac 600
ccaaccttga tccccgagtc ttcacaaatg ctactgaag aaaattccta gaacaattca 660
gggtcctttc ataacctcta ctctgaggyg ttaataaaaa accttagtaa cttaaaaaaaa 720
atgagctgta cacaaatact gaacaataat gctacatatg ttaagtatgt aagaaaaata 780
tatactttga cataaataag aaacggtgag ttgataattg gatagaatgg tggatagagt 840
gakagatatg tagtaaagca aatataacaa aatgataatt gtacaatcta agtggttgga 900
ctataaatat gcacttccca caac 924

```

&lt;210&gt; 660

&lt;211&gt; 813

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (791)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (798)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 660

```

aggcgagtag catgtgcggg agactcacgt tgccggcgaa gtgggagaga gaaaagtggg 60
gggtgaacaca ctgtggggta gcttcogagat cagcaatgtg agactagccc gggatcatgct 120
gacacagttt gccgaggggc ggctggaaga tcaactggac aaatatgatc actgggctga 180
ccgcttttag gacctgcccc tctatttcat gactttccat ggacagcaaa gcatcaggac 240
tgtaatatgat acaatgcaac atgcagtcta cgtctatgac atthtgcagt tgatcatcga 300
caacctgcag ttcagtgtgg gtcacgagca gctgtccaca gacaggatcg cagctcaaga 360

```

454

```

ctacatcattc ggggtctttc ggaagtttgc aacagacaat aactgccatg tgacactggt 420
cattcaccccc cggaaagagg atgatgacaa ggaactgcag acagcgtcca tttttggctc 480
agccaaagca agccaggaag cagacaatgt tctgatcctg caggacagga agctggtaac 540
cgggccaggg aaacgggtatc tgcagggtgc caagaaccgc tttgatggag atgtagggtg 600
cttcccgtctt gagttcaaca agaactccct caccttctcc attccaccaa agaacaaggc 660
ccggctyaag aagatcaagg atgacactgg accagtggcc aaaaagccct yttytggcaa 720
aaagggggct acgacacaga actytgagat tkgytcaggc caggccccma ctcccagcca 780
gcagacacct ncaagcgntc aaagtgaagg ccg 813

```

&lt;210&gt; 661

&lt;211&gt; 1718

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 661

```

ggccgggcat cgcaggcgcc ctctcggggc ctcccgcccg ggggcgccaa cggggagagc 60
ccggggggcg gcgccccctt tccgggcagc agcggtcttt ccgcccgtgt gcaggcggag 120
gtgctggatc tggacgagga cgaggacgac ctggagggtg tcagcaagga tgcctcattg 180
atggacatga actccttcag ccctatgatg ccaacatccc ctttatcaat gataaaccaa 240
atcaagtttg aggatgaacc agatttaaag gatctcttca tcacagttga tgaacctgaa 300
agtcattgta ctacaataga aactttcatt acgtatagga ttattactaa gacatctcgt 360
ggggaatttg actccagtga atttgaagtt aggagacgat atcaagattt cctttggttg 420
aagggaatac tggagaagc acacccact ctgattattc caccattgcc agaaaagttt 480
atagtaaaag gaatggtgga acgctttaac gatgacttca ttgagacacg caggaaggct 540
ttacataaat ttttgaaccg aattgctgat catccaactt taacatttaa tgaagacttc 600
aaaatttttc tcaactgcaca agcttgggaa ctctcttctc acaagaagca aggtcctggc 660
ttgctaagca ggatggggca aaccgtcaga gctgttgcgt cctcaatgag aggagttaa 720
aaccgcccag aggagtcat ggaaatgaat aactttattg aactatttag ccagaaaata 780
aatttgatag ataaaatatt tcagagaatt tataagggaag aaaggggaata ttttgatgaa 840
atgaaagaat atggcccaat tcatattctg tggtcagcgt cagaagagga tctggttgat 900
actctaaagg atgttgccag ctgcattgac agatgctgta aggccactga aaagcggatg 960
tctggactct cagaggccct gcttctctgt gtacatgagt acgtgcttta tagtgaaatg 1020
ttaatgggtg ttatgaaaag aagagaccaa atacaagcag aactggattc caaagttgaa 1080
gttttgacct atwaaaaggc agatactgat ctgcttccag aggagattgg aaaacttgaa 1140
gataaagtgg aatgtgctaa taatgccctg aaagcagatt gggagagatg gaaacaaaat 1200
atgcaaaatg atatcaagtt agcattttaca gatatggctg aggagaatat ccattattat 1260
gaacagtgcc ttgctacgtg ggaatcattc cttacatcac agaccaacct tcacttggaa 1320
gaagcctctg aagataaacc ttaatcccat tgaggacttc tgtttgatct ttgggagaca 1380
gcatttatta accaaagtta ttctttctgg atctgccgtg tctttataaa gtggatgaaa 1440
aatgttttgt acccatctgg aaaaccaaca acttgaaatc tcaggatttc caggtcactg 1500
acatgaattt gaagatatat ctatctgtat ggatatatat ctatatgtat atagatatat 1560
aaatacagag agatatctgg cttgggtttt attatgttct taaatttgtg tgccaataat 1620
tgcatataga ttttttttct taaatatatt actgtggaac atgccatttt aaatatgttg 1680
taaggactgt ttttaataaaa agtttagtat gaaaaaaa 1718

```

&lt;210&gt; 662

&lt;211&gt; 1114

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 662

455

```

gcggcgccg cgcaggggct ggtacgcgct gggcgccgag agctcatggc ggaggaagag 60
agcgaccaag aggccgaacg cctcggagaa gagcttggtg ccattgtgga gtccccgctg 120
ggccctgtgg ggcttagagc tgcgggacgac ggcagaggcg gcgctggcag cggcaactgc 180
ggcgccgccc tccgaatcag cagtcgggat tactgccgac gcttctgtca ggtggttgaa 240
gattatgctg gaagatggca ggtccctttg ccacagcttc aggttcttca gactgccctt 300
tggtgtttta caacagccag tgcattcatt ccagatgaat gtgagcatgt acaatatgtt 360
ttgartagcc ttgctgtgag tttctttgag ttgctgctgt tctttggaag agatgagttt 420
tatgaagagc ccttaaagga tattcttgga tcattccagg aatgccagaa tcacctccgc 480
agatatggaa atgtgaatct ggaactggtg actcgaatca ttagagatgg tggcccatgg 540
gaagatccag tgttgcaagc tgcctttaa gtcagccag catctcagga gatagtgaac 600
aaatatthaa gttctgaaaa tccactgttc tttgaactac gtgccagata cctaatkgtc 660
tgtgaacgca taccggaagc aatggctctt attaaatctk gtataaatca cccagaaatc 720
agtaaagact tatacttcca tcaagcactc ttcacatgtc tgtttatgtc acctgtagaa 780
gatcagctat tccgggaggt attgtttgag actatttttg cctattacca ttttaaccct 840
acaaaaaa aacaaaaaa aaaaagtagc ccactgttgt tgttaaattc cttttacagt 900
aatgccaag attttaaggat tacattatct ggatgtgttt tcttttgga ccataactta 960
aggtcatgtt gaattagtca aaatctgata ttaacaaatg atgaaatcaa taaaatatac 1020
tcattaataa gtattattca cattgcactt ttgatgtgat ggagaagagg tcaaataaaa 1080
gtcaacaagc tcacagcttg ccaggagtaa aaaa 1114

```

&lt;210&gt; 663

&lt;211&gt; 341

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (25)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (50)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (70)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 663

```

gattaaaagg atggctcttc ctaangtaat ttactctttg ttggttttan gaaatctttt 60
gcatgtatan ggtataaaac aacaactgtt tatatgttac ttccattagc cgatgaacta 120
gyggktaaat gatgcttcaa atagaaaata agttaattcc actaatagat tgtgttttca 180
ttaaagtcatt aaacatgaaa taacacttta caaagttcat tttgttgagt atcttgcat 240
actgtgaatt atattgtaaa gtagtttaaa gtttaacatt aaagataaaa ttattatttt 300
tgctgttatg gtagtaataa aaaaatttga ttaactttta a 341

```

&lt;210&gt; 664

&lt;211&gt; 285

&lt;212&gt; DNA

456

&lt;213&gt; Homo sapiens

&lt;400&gt; 664

```

accatggcag tacacaggcc gccgccaatc tgettaacac caaccagctt gacgcgcgca 60
gctttcacca tcgcgtcaga agcctcaatc agtgcaacca ggccccgggt ttcatcatt 120
cctaattgctt ccattgtsct ttctctctta tcagggtcca gaacgggacc gttcattcaa 180
ccagtgtttg taaactgctt tcgcggttca ctwctgtctg acgcggcaca gctgccacca 240
gcgccagctc gataatttcc tgcacgctac aaccacgaga gagat 285

```

&lt;210&gt; 665

&lt;211&gt; 631

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (581)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (589)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (608)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 665

```

atgaaaaata acagattata tatagtttga actatttttc gtgtgctttt ttaaacttgt 60
taaaaagaaa tttatataaa atttaaaata caaatgttaa attatccaga aatacagaat 120
agttaatatt gctagaacca aataacctct aaaatgtttt tatttttgga attttgtcat 180
gctaagcact tttgtatctg cacaattcag taggttaaga atcaatcttc tttttcttaa 240
tagtacagca gacttttagct tcaagtttca taggcttagt acttatatct agacatttgt 300
gtctaaataa gctttttcatt aactttttat ttttaaggaca gtatcttttc atgaaagagt 360
at ttggctga atgttttgcta tatatatgtt acttgaaatg ttaaatttaa tatgcagcat 420
accataggtg tatatatagg tatataattt taagggttaa atattcagtc tacaagtttg 480
gttccttatt taagcttttg ggctaatact gcatatggca caatgtttta atattggcaa 540
kttcatctca raraagggga tcaratataw ttttaaagtt naaaaaant tactgaaacc 600
tccccctnaa aagcctacct ttatttaaac c 631

```

&lt;210&gt; 666

&lt;211&gt; 1529

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 666

```

aaaatttgct gtaataccaa aactaacctc atcaaagata cagaaaaaaa gaaatatagt 60
gagccctaaa ggacacatac attgaataaa taattggaac atgtgggttat ctttagatcc 120
acatcttagc tgtcatttgt tcactctaaa actgatgttc atctttctgt taatttcctt 180

```

457

```

ctgcctaaag actacatgac agaaatgacc taccactact tattatttct gaagcctaac 240
tgcaagactg atttctgaga acaagtaaag aactggaata cttatttttc atataaaaaat 300
ctaaatgtgt taataaatca ttccatacaa aagtacatta ttaaataacc acattattaa 360
aataattgca agaaaatgga ccatatttac aatgttttgt aaacttgcta gtgtgtggat 420
atgtacccta cttgtgaaat acatttgaag atataaagag cagccaaaat gatggcaaaa 480
tggtaggcta atattttcta ttattattgg agaacatata atattttgga atcatgcaat 540
tttgcacaca gtgaaacat taattttcca aggtaatcc tttagaatat ggtattggca 600
tgcagtttct tacttatcta gaatatttgg cttatctgaa agatatcaat ttaagatctc 660
tggaagtgtt agaatttttg atccttcaca gtgtcaatat ttaatgaatc actaagcttt 720
atattattaga cgtgttgagt gagtgcctgag ttccttgctg ccacttttgt taccattgtc 780
acacactatg tgtaaaccag tcccaccact tattactaat aaaattttga ctgataattt 840
atatttgcac ttacaatata tatatcctgt ctttatattt ctctagagta cttttccat 900
catgtttaag tgtatttctg ctattatttc ctctcctgca gaatacatac aagtgtatgt 960
gtataaagtc atacatgtac aagcatgcat attgagattg aatcacattt ccatactgtc 1020
tgttatttta ttgggkttta tattgggttt ctttagttta tgttgttttc tcaaaagcag 1080
cattttaaat tacgratact ggacttattg gatttaatta taaatccaat tactactgga 1140
aactcatttt tacataatat agtccttaaa ttatttaacc cttgctaagt aattgacata 1200
tgtaacaata actagcctaa agaaacscwa aaaaagtatc tctcccgagc tgaaacttaa 1260
aaattcgtaa gtgtaagaaa gaatgtgaga atataattaaa tgcacactgt accattagat 1320
gaaatcctac ttgagaaatt gccataagcc atattacaga tcttactttg ttactgaatc 1380
agattaattt cttgttataa taattttcat cataaatttt ctatttttaa agccgctggg 1440
actagaaata ttcttttaat gctatatcta tgtacctact gacacatttt tctccataaa 1500
agtactttta aaaattactt catgatttg 1529

```

&lt;210&gt; 667

&lt;211&gt; 1020

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 667

```

tcgacccacg cgtccttaag tttttcaagt tacccttttc tgaggaaaat tattctagag 60
gaacctaaaa agggacaaaa aaattgaaac ttcttaggag tctaactctg gtgccttctg 120
ttaaaagtca gtgtatcaga aaagaaagca gccatgtaag aggctaactt aartagaagt 180
gctagaaata tctttgtgta ttaacatgca ataaaaggta ccattcaaaag cagggggaaa 240
ggtaggaaga agaggtaatt ttactgaaa attagggcaa tgttggtcgc cttttattaa 300
aagctttttt taagctttca taaagattgc tttttgctat ttttgaaaat atgggtattat 360
agtttgtatg gtaactggc atatatgaca gtctactgca tatatatgaa tgactaggat 420
taatctgggtg tgtttacata ggatatacat agttgaaatc tagcatgaaa ggtaaaaaag 480
gagatactgc acaatatttc ttaaaaagtaa aatgctgtta ttgtgatgag tctttgggtt 540
aacatcacag tattctgtga tgtcttttta actttttgga aagaggtatc atttgtagaa 600
aaaatttgat ttgggttaaa tataggtttt taaaactata aatggtgtct tttttatatt 660
tttatgaaaa agcagtagaa aattactttt gaagaaaaca ggctatttaa atattgaaat 720
atatgtatgt tgtgagttta aggagcctgt aattgtcagt ttacaaaac catctgtgtt 780
caatggttgt aaataaatc tcaaaacatc atttcaaagg ctgcctacag aatattatca 840
cttgacagat agagttaata aattaccaat caggcacatt ttataatgtt tgtctctgta 900
aaggtaatat tagcagttaa agaacacgga tgagaaaaga atgtgttaca taggttgcac 960
cacttgcagt taaataaaaac tcacaatttg tgctcacagc aaaaaaaaaa aaaaaaaaaa 1020

```

&lt;210&gt; 668

&lt;211&gt; 810

&lt;212&gt; DNA

458

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (9)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (793)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 668

```

ggcacaggnc atttttaagt gtttagagtt ttttgggggtt tgggggtgggtt ttttttcctt 60
gttttccttt tttcctttta attggatgca ctgacctggc ccaggaaatg aagagattct 120
cttttgatgc tattaccaat gttatcataa agtgacagtc acctgtaaca aaaagggtggc 180
accagacatg atcactgatg ttttatttgc acatcaatat ttttattttt gtattctggc 240
tcagctgctt ctctgagtgg agttaaggaa tgagccacaa agatttttgt agtaggtata 300
ttggcattgc attttatatt cctctatatt taattttgaa aacctaaaag aaggattgtg 360
catcttgaga gaaagttgag caaattgtga tctagcggaa tgtaatttg tgctgcttct 420
tgtgcacgat agcagcagta gtatctctct tggaaataaa catcccatat tatgatgtct 480
atgaatatag gtttcctttt cttccttccc tccctccttc cccacacctt ctcttttttt 540
tttctctctc agcttctctt ttctccttc cctcttccct tccctcttct ttactttttt 600
tgaaatcact tattgtaaat aagttgtaat ccaaacctca tgtatcaatg gggaattttc 660
aaatataaat attaccaatg cattttctgg ktgggtggctg atttttgatt gaagataatg 720
agaatgacat gtctgggtgct ttkgggtgag gactcgctta gctcataaac tttkggattt 780
tagaattcaw tgnntaaccg ggaaaaggcc 810

```

&lt;210&gt; 669

&lt;211&gt; 2501

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 669

```

taaatatgca tatagtagag tgcaaaaata tagcaaaaat aaaaactaaa ggtagaaaag 60
catttttagat atgccttaat ttagaaactg tgccagggtgg cctcggaata gatgccaggc 120
agagaccagt gcctgggtgg tgccctcctct tgtctgccct catgaagaag cttccctcac 180
gtgatgtagt gccctcgtag gtgtcatgtg gagtagtggg aacaggcagt actgttgaga 240
ggagagcagt gtgagagttt ttctgtagaa gcagaactgt cagcttgtgc cttgaggctt 300
ccagaacgtg tcagatggag aagccaagt ttccatgctt caggcaactt agctgtgtac 360
agaagcaatc cagtgtggta ataaaaagca aggattgcct gtataattta ttataaaata 420
aaagggttt taacaaccaa caattcccaa cacctcaaaa gcttggttga ttttttggt 480
tttgaggttt ttatctgaag gttaaagggc aagtgtttgg tatagaagag cagtatgtgt 540
taagaaaaga aaaatattgg ttcgcgtaga gtgcaaatga gaactagaaa gttttatacg 600
attatcattt tgagatgtgt taaagtaggt tttcactgta aaatgtatta gtgtttctgc 660
attgccatag ggctgggtta aaactttctc ttaggtttca ggaagactgt cacatacagt 720
aagctttttt ccttctgact tataatagaa aatgttttga aagtaaaaaa aaaaaaatct 780
aatttggaat tttgacttgt tagtttctgt gtttgaaatc atgggttctag aaatgtagaa 840
attgtgtata tcagatactc atctaggctg tgtgaaccag cccaagatga ccaacatccc 900
cacacctcta catctctgtc ccctgtatct cttcctttct accactaaag tgttccttgc 960
taccatcctg gcttgtccac atgggtgctct ccactcttct ccacatcatg gaccacaggc 1020

```



459

```
gtgcctgtct aggcctggcc accactccca acttgaccta gccacattca tctagagatg 1080
gttcctgatg ctgggcacag actgtgctca tggcacccat tagaaatgcc tctagcatct 1140
ttgtatgcat cttgattttt aaaccaagtc attgtacaga gcattcagtt ttggctgtgg 1200
taccaagaga aaaactaatc aagaatataa accacattcc aggctgctgt tttctctcca 1260
tctacaggcc acacttttac tgtatttctt catacttgaa attcattctg ctattttcat 1320
atcagggtac agacttataa ggggtgcatgt tccttaaagg tgcataatta ttcttattcc 1380
gtttgcttat attgctacag aatgctctgt tttgggtgctt tgagttctgc agaccaaga 1440
agcagtgtgg aaattcactg cctgggacac agtcttataa gaatgttggc aggtgacttt 1500
gtatcagatg ttgcttctct tttctctgta cacagattga gagttaccac agtggcctgt 1560
cgggtccacc ctgtgggtgc agcacagctc tctgaaagca agaaccttcc tacctattct 1620
aacgtttttg ccttctaaga aaaatggcct cagggtatgg atagacatag caagagggga 1680
agggtgtctt cactctagca accatccctc cattacacac agaaagccct cttgaagcaa 1740
aagaagaaga aagaaagaaa gcttatctct aaggctactg tcttcagaat gctctgagct 1800
gaatgctctt gctcctttcc caagaggcag atgaaaatat agccagttta tctataccct 1860
tcctatctga ggaggagaat agaaaagtag ggtaaatatg taacgtaaaa tatgtcattc 1920
aaggaccacc aaaactttta gtacctatc attaaaaatc tggtttttaa agtagctcaa 1980
gtaagggatg ctttgtgacc cagggtttct gaagtcagat agccattctt acctgcccct 2040
tactctgact tattgggaaa gggagaactg cagtgggtgt tctgttgacg tggcaaaggt 2100
aacatgtcag aaaattcaga gggttgcata ccaataatcc tttggaaact ggatgtctta 2160
ctgggtgcta gaatgaaaat gtaggtatct attgtcagat gatgaagttc attgtttttt 2220
tcaaaattgg tgttgaaata tcactgtcca atgtgttcac ttatgtgaaa gctaaattga 2280
atgaggcaaa aagagcaaat agtttgtata tttgtaatac cttttgtatt tcttacaata 2340
aaaatattgg tagcaaataa aaataataaa aacaataact ttaaactgct ttctggagat 2400
gaattactct cctggctatt ttctttttta ctttaatgta aaatgagtat aactgtagtg 2460
agtaaaattc attaaattcc aagtttttagc aaaaaaaaa a 2501
```

&lt;210&gt; 670

&lt;211&gt; 429

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (369)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (380)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (410)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (415)

&lt;223&gt; n equals a,t,g, or c

460

&lt;400&gt; 670

```

ctcacttcgg gcatgtgatc ctgggtatca ggtgttacat tatatagtat ttacagagg 60
aagtagctca gcaaatttaa ctggcctcag agtctgtggt tcagttggtt tgcacagggc 120
taaaagctgg tgagtgggtt atacaccatc acaaaggatg cccattcttc gcagtgactg 180
cagatgcgtg cggacggaga gcacaaggat ctcactatca tttctccctg ctaactccta 240
gaaagctttc cactttcttg gacacgttat ttaaagtgtt atagtttggt tttttaaact 300
tgtgttcaga aaacacttac caccatattg cttcactgta ctattccaat tcagtcctc 360
tgttaccna actctatatn gtgcttggtg aactattcca tgaaatttan taccnggaag 420
aaattaggc 429

```

&lt;210&gt; 671

&lt;211&gt; 1482

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 671

```

cagggcactg agtgattctg gatgggcttc tgacctgggg acaattttaa cagcattaca 60
accgacattt tgggtttctt ggggatttta taggccaggt acaaagcaga aagtgcata 120
aagatgtgat ccactttgcc tgggaagaga agctctttct cctggctgat gaggtgtacc 180
aggacaacgt gtactctcca gattgcagat tccactcctt caagaagggt ctgtacgaga 240
tggggcccgga gtactccagc aacgtggagc tcgcctcctt ccactccacc tccaagggct 300
acatgggcca gtgtggttac agaggagggt acatggagggt gatcaacctg caccctgaga 360
tcaagggcca gctggtgaag ctgctgtcgg tgcgcctgtg ccccccagtg tctgggcagg 420
ccgccatgga cattgtcgtg aaccccccg tggcaggaga ggagtccttt gagcaattca 480
gccgagagaa ggagtcggtc ctgggtaatc tggccaaaaa agcaaagctg acggaagacc 540
tgtttaacca agtcccagga attcactgca accccttgca gggggccatg tacgccttcc 600
ctcggatctt cattcctgcc aaagctgtgg aggtctgtca ggccatcaa atggctccag 660
acatgttcta ctgcatgaag ctcttgagg agactggcat ctgtgtcgtg cccggcagtg 720
gctttgggca gaggggaaggc acttaccact tcaggatgac tatcctccct ccagtggaga 780
agctgaaaac ggtgctgcag aaggtgaaag acttccacat caacttcctg gagaagtacg 840
cgtgaggacg cctgagcccc agcgggagac ctgtccttgg ctcttcctcc caatgcccg 900
caggtgaac tcgcctcccc cgtgactctg cctcgggcct cgcagaggcc gctggtcact 960
tcgtcatcat tttgcccctg gagacgtctt tctttgtgcc ttgatgttga gagcgctct 1020
cttttgagca aacaagcatt ctatatgcaa ccagagtaga ggggacctgc tcagcaggtg 1080
tgaccagggt tctctgaatc tgttattgtt tttgtctctg gaaagtcat ttggggttta 1140
caacaactag gatgtgttgg gtgagatgtt tcagatctgg agaaatgagc aggtgtcggg 1200
aaatgtgtga cttaaccgtg gtgagggctg gaaatccaaa ctcaccacca tgatctgtgg 1260
catcaggctt ctcccagtac aggaggggtg catccccag catgcggctt ctctgccatt 1320
agcagccctg ggcggggcga ccacactcga ggctgcgggtg ctacgggctt agcctcgcct 1380
ccctcactgg gagcttccc atcctccctg ccttccccag tgggaagtta ggggaagctca 1440
ggagcctggg accccgcatg tcccaaatg ggattggaga ag 1482

```

&lt;210&gt; 672

&lt;211&gt; 607

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (499)

&lt;223&gt; n equals a,t,g, or c

461

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (585)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (596)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 672

```

aattcagcac gagatgtcac attgaagaat ttcttcatga tacattttca ggcacacttg 60
taggaaaatt aggatcatga gtctgtcttt aagtatttgc agtgtagtaa gagaatccat 120
cttttactag gagaccagat tctttttata cctcattcat catgctggat tgtaataaat 180
ttcagatttt ggaatgggct tatttaactg acctaacaaat cttgatgatt tccattagaa 240
taacttattc taaggcctaaa agtgggaaaga cactgttggg ttttattttg atttcactat 300
actcattttt gaacatggaa atacagtggg gaaacmctt atgcaaaaat gataacagtg 360
aggaaattat gacagtgaag gagatctgac ctaactatct atcttgcttc gaaactgccc 420
ttggctcggt ctgagtgtgg gccaaagctaa ctttgggaga aatttacttt atagggttaa 480
ttataatagc ccttccccna aactaaacgg attctcctgc ctcagcctcc cgagtagctg 540
tccttataat accatcagcc tatcatttat tcgtcatggg atggnttggg tcccanatcc 600
cctatcc 607

```

&lt;210&gt; 673

&lt;211&gt; 470

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (389)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (469)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 673

```

ccattcaacc cagtacaaaa tccaactgaa gccagcaag tggctcatgc ctgttctatc 60
tctgaggaca gttgtgattg gatttagggc ccatccagtt agtccaggat gatctcatct 120
caagatccta aatctgatta caattgcaaa gatccttttt ccaaataagg tcacatgcac 180
gtaagtcccg gggattatgc ttgcgtggga cacatctttt ttgaggccac cattcaaccc 240
actacaaaat ccaactgaag cccagcgaag tggctcatgc ctgaaatccc cgcactgtgc 300
gaggccaagg caggagggtc acctgaggcc aggagttcaa gagtagcctg ggcagcgtag 360
ggagrteckc atctcttttt tttttcgana tggagtttcg ttcttggtac tcaggctgga 420
atgcaatggc gcaatcttgg ctactataa ctctctctc ctgggttcna 470

```

&lt;210&gt; 674

&lt;211&gt; 1110

462

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 674

```
ggcagagctg ttttggagat tgattgggtg ggtctagagc cagaattcat atttttaata 60
tgcattccag gagactcctg cgaatcagat gcatttggaa atcattgcac taagtcatat 120
ctctgggtac tccaaacagc tagtcctgag gcttccttgg gccttagaat tttttcttca 180
aatgtcctgg tgaggtcctt ctcaatcctt tggggctggc tgtggtgagt cactcagaag 240
tctggctgtg acctgggatg ggctcaccag agtacgctat ggtagtggga aaacaggcag 300
agagaaaagg gtgtcaggag cactcccagg gaggctgttg tagatatttc cattcccaga 360
acagtgatct attgtgacag tctcagaaca gacaacaaga attacaggta attttctcat 420
tctcttgata tatttttagc aaaacttaaa tcatgaatag aaggaaaaga tgccattggg 480
gaaatagaaa aactcaatca ttttataaag catacaaatac ataaggatga ctggccaata 540
gcactccac tttggtctta cctaaagtgg ggtggacaag aataataaaa gtcctcakt 600
tatatccttc caaaatcaga tttaaatgct gccagcatct taatggaagt ctgaaattga 660
ttgataggat gtagaaatcc aaattcacta aaataggggg ccagctacat aaagtcctag 720
aaggaaaaag tgccctcgctt ttttctgcca ttatcctacc ccctagtcac ctggggaatt 780
gatctatgaa gcttgaagaa ggggcattta acatcagagt ggtgcaaggg cagtgttgag 840
atgctttaag cagcagcctg agcttttagc ctatttgaag gggagaaggt taatactaat 900
aatatttgtg ttatttttat gatatttac tgtttacaga acactttcat ttgatcccaa 960
catcaactgc tgtgatagag gcagggcaga tgttgtgggc tcattacata gaatgtaaaa 1020
ctgagggtga aaaataactaa gtgacttgtc ttagtcaaaa tggtttttaa aattataaag 1080
ccaggccttc tgactgtcaa aaaaaaaaaa 1110
```

&lt;210&gt; 675

&lt;211&gt; 250

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (245)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (246)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 675

```
ggcacgagcg gcacgagcta gttcctaatac ttaatctagc ttcaacattg ccttgcttgc 60
aaatttacta ctttttaaaa tgacttgaat cttctctatt ttcacagttc ttgtctat 120
tttccctgta acagtttgta tgaacactaa tgtggtgttc aaccctccct ttcaatttta 180
gagaattgga ttctatattg gaacgtcact taaatttttg agtcctcaaa accaaccttg 240
ttggnntggg 250
```

&lt;210&gt; 676

&lt;211&gt; 692

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens